No. II.

Bengal during the year ending 31st March 1897.

		100	XX	XII.	-civii	WORK		7		CON	TRIB	JTION.		Di	BT.		balance	balance.	of population.	baiance) per head of
	elidings and lands. Funds and lindings and lindings and lindings and lindings and lindings and lindings and stores and stores and or Public Works				cal.					pte and		opening	Sujuedo	bead	(excluding be					
Tolls on Ferries.	Bent of buildings and	Sale of Nazul build-	Sale of buildings and other property (other than Nazul).	100	Miscellaneous,	Contributions,	Total.		Total	From Provincial to Local	Prom other Boards.	Total	Losus.	Deposits and advances.	Provident Fund receipts	Total.	Total income, excluding	Total income, including	Incidence of taxation per	Incidence of income (ex
107	88	60	60	61	62	63	64	65	66	67	68	69	70	71	71(a)	72	73	74	78	76
Rs.	Rs.		Rs.	Ra.	Rs.	Ra.	Rs.	Ra.	Ra,	Ra.	Ra.	Ra,	Rs.	Rs.	Ru,	Rs.	Ita.	Rs.	A. P.	A, P
9,986 1,390 1,429 19,381 5,844 6,630	11	*** *** *** *** ***	904 904 904 904	40	294 481 6	1,13,837 9,278 30,721 1,054 57,997 11,620	1,24,527 11,149 32,196 20,405 63,931 18,256	### ### ### ###	1,94,537 11,149 32,196 30,405 63,931 18,256	97,974 13,013 28,246 36,844 97,189 10,646	1,869	27,974 13,-13 28,246 35,844 29,058 12,603	****	17,444 5,742 3,145 17,340 14,934 3,×17	*** *** *** ***	17,444 8,742 3,145 17,840 14,984 3,917	1,13,046 1,16,412 2,40,399	3,05,988 1,47,907 1,42,928 2,39,060 2,35,890 95,556	1 6 1 4 0 10 0 10 1 6 1 1	3 9 9 1 1 9 1 6 3 8 1 1
44,630	421	187	282	64	836	1,94,513	2,70,464	111	2,70,464	1,42,912	3,896	1,46,738	***	61,922	101	61,922	10,91,355	11,67,329	1 1	2 4
90,000 3,683 8,704 9,477 6,018	498		544 051 184 900 241	53	107 308 766	82,877 201 1,012 65,480	1,03,491 3,894 11,024 75,619 6,018	2.60 2.60 2.60 2.60 2.60	1,03,491 3,884 11,024 75,819 6,018	25,315 2,603 1,842 5,490 21,254	1,320 3,066	25,315 2,603 1,842 6,816 24,329	000	18,516 20,255 8,326 9,4 9 5,198	900 900 400 900	18,516 20,255 8,326 9,409 5,198	1,43,172 1,07,618 2,10,544	1,14,294 2,46,130	1 1 0 8 0 10 0 8 0 11	2 10 1 4 1 9 1 6
48,891	543	***	444	52	1,181	1,49,570	2,00,286	24.5	2,00,236	86,510	4,386	60,896	1	61,794	840	61,794	8,47,517	9,86,270	0 10	1 8
12,258 8,595 25,130 49,062 1,581 8,954	14 800 839	800 800 910 910 800 701	00.8 10.7 0.0.7 0.0.7 0.0.7	600 000 000 000 000	10 66	13,931 58,037 54,915 55,763 99,764 20,079	26,218 61,700 80,345 1,03,164 1,01,345 29,051	000 000 000 000 000 000 000	26,213 61,700 80,345 1,05,164 1,01,346 29,051	3,388 8,673 952 4,697 1,041	000 004 000 000 000	3,388 8,673 952 4,697 1,041 6,114	000	8,792 9,384 13,480 11,164 5,548 9,288	000 602  000	8,792 9,384 13,490 11,164 8,546 9,256	1,92,981 1,82,477 2,63,086 1,67,386	2,50,944 2,18,148 2,86,060 2,09,532	0 11 0 10	2 0
,00,880	653	211	***	441	96	3,02,489	4,03,818	***	6,03,818	24,865	***	24,865		57,626	244	57,626	of Street and			-
20,508 81,793 4,205 5,522	216 108 		81 80	000 800 000	141 10 931	41,778 50,860 15,484 36,713	68,837 82,929 19,698 40,406	000 190 181 182	68,837 82,929 19,698 40,486	23,755 8,979 22,631 27,983	944 944 946 149	23,758 8,979 22,631 27,933	X 8 8 30 54 1 20 6	14,605 31,016 6,827 17,347		14,608 21,016 6,82 17,34	3,31,035 7 1,33,236	3,18,059 1,33,346	0 8	1 6
68,317	321	211	- 61	501	386	1,42,835	2,11,980	101	2,11,930	63,298	***	83,298	***	59,795		89,790			0 9	1 6
7,834 12,781 14,828	**	*** ****	73.0 13.0 13.0	243 -01 101	600 600 800	43,630 20,907 63,477	51,464 41,585 78,305	***	51,464 41,988 78,305	27,428 12,438 15,285	020 001 291	97,428 12,438 15,285	e,000	0.00 115 560	7,309 11,049 19,174	7,339 11,049 26,174	1,49,820	3,05,750	0 10 1 3 0 10	1 8 9 4 3 8
	188	241	***	***	***	1,37,014	1,71,787	***	1,71,787	55,151	ybe	55,151	6,000	****	37,532	43,532	5,64,121	7,87,906	0 11	2 2
14,752 637 5,751 9,597 11,048 50,274 20,218	000 72 672	50.7 500 500 241 44	1,758	204 142 144 244 244 241	87 11 20 424	9,078 2,787  200 3,964 600	23,628 4,712 5,809 10,178 11,268 40,330 27,142	000 00 121 121 221	28,828 4,718 8,808 10,178 11,268 40,330 27,142	3,133 19,049 11,185 9,112 3,026 8,198 10,766	250	3,133 19,049 11,435 9,112 3,026 8,198 10,766	198 514 519 519 519 519	7,563 15,947 21,385 37,881 40,402 18,271 20,226	*** *** *** *** *** ***	7 563 15,947 21,385 27,881 40 402 18,271 20,226	2,15,261 3,02,874 2,28,269 2,20,209 1,38,851 2,74,984 2,93,561	2,47,425 3,60,378 2,40,268 2,81,780 1,43,599 3,84,193 2,95,191	1 8 1 9 1 4 0 11 0 7 1 1 1 6	\$ 3 \$ 4 1 10 1 5 1 3 1 7 1 8
	-		1,768	8	518	16,097	1,23,266	-	1,23,206	64,460	250	64,719	***	1,51,674	612	1,51,674	16,73,990	19,58,834	1 8	1 9
\$0,143 5,804 5,370 41,317	650	19. 181 111 131	***	380	36	36,029 17,030 21,462 4,436 78,946	67,236 22,834 21,452 9,807	144 140 144 143	67,236 22,834 21,452 0,897	4,630 6,267 4,434 3,460	000 0.5 0.04 0.04	4,650 5,267 4,464 3,460	50,000	31 565 43,346 14,320 16,631	000 000 000 000 000	81,565 43,345 14,320 16,431 1,55,861	3,10,312 9,26,463 2,09,741 79,211 8,25,717	\$,26,966 2,91,971 2,61,954 1,24,800	1 0 0 10 0 7	2 6 1 10 1 9 1 7
		-					-,,000	-	-,-,-		*	17,841	55,500		6811	,				-
8,776 7,738 2,690 19,099	454	AS1 +0. ×01	554 595 594	***	2,216	6,873 17,892	15,649 27,841 3,044 46,534	193 195 193	15,649 27,841 3,044	\$1,364 19,498 18,004 08,860	***	31,364 19,498 18,004	311	604 2,810 5,634 9,108	000	664 2,810 5,634 9,108	1,22,250 91,668 62,041 2,75,959	1,67,987 1,12,900 78,008	0 6	1 6 1 1
101,684	3,713		1,819	476	5,263	-	15,49,334	442	15,49,334	5,13,919	8,462	68,866 5,22,374	56,000	5,07,780	87,532	6,01,312	72,74,2325	86,79,666	0 11	1 10
18,814	3,562	****	1,174	85	2,319	6,63,200	10,89,183	***	10,89,188	5,10,907	2,255	5,13,192	1,25,000	6,79,911	3,204	8,08,118	67,70,987	85,03,168	0 11	1 9

 $F_{0i}$  Statement showing the expenditure of the District Boards in  $B_{0i}$ 

					IREFUNDS AND DRAW BACKS	15.	-POST			18.—ADMI	101	ION.	din . i		POLICI	R.
								1	G	ENERAL REI LOCA	L FUNDS.	NTS OF	C	LTTLE-PO	UND CE	MARON
100	NAME OF DISTRICT BOA	Saraharan Saraha	Closing ogganica of 1881 year.	Total income during the year.	Local rate refunda.	District Post Establishments,	Mail Cart service.	Total.	Office establishment.	Office contingencies.	Payment of establishments for offices of Accounts, Control and Audit.	Total.	Establishments.	1	Refunds of cattle-pound co:-	Toomat
	2		8	4	8	6	7	8	9	10	n	13	13	16	15	18
	BURDWAN DIVISION.	B	8.	Rs.	Rs.	Ra.	Ra.	Ra.	Rs.	Rs.	Rs.	Ra,	Ra.	Ra.	Ra.	Be.
2 2 3 4 5	Birbhum Bankura Midnapore Hooghly Howrah	8 2	8,097 4,861 6,516 1,339 3,791 0,242	3,14,085 1,18,046 1,16,412 2,40,339 2,12,099 85,314	000 44 004 44 117000 117700 400192	200 200 200 200 200 200 200 200 200 200	121 100 121 122 100 134		6,35 2,62 2,76 6,14 4,21 3,55 25,65	5 436 6 335 4 693 6 1,961 2 890	2,09 1,24 74 2,46 1,55 61	0 4,801 0 3,884 3 9,300 1 7,728 9 4,961	19	3 157 5 271 60 41	889	000000
	PRESIDENCY		-	20,01,000	***482			***	50,00	0,000	0,00	40,001	1,00	814	98	1,00
3 4 5	Division.  24-Parganas Nadia Murshidabad Jessoro	20	,464 ,427 ,63-; ,606 ,820	2,7 1,831 1,43,172 1,07,658 2,10,544 1,12,812	200 Co. 1	*** *** ***	001 201 201	ess ess bag ses	5,160 8,590 2,633 5,518 3,01a	1,910 1,626 2,288	2,15 1,57 1,38 1,69 1,31	7,077 5,646 9,503	6.0 35 156	361	28 66 7	400 860 400 140
	Total	1,38	,743	8,47,417	A 5 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A	884	100 mar		866'0"	8,444	8,120	86,500	880	1,947	101	1,5%
1 2 3 4 5 6	Jalpaiguri Rangpur Bogra	66 35 32 42	,707 ,923 ,671 ,074 ,196 ,671	1,87,430 1,92,981 1,92,477 2,03,086 1,67,388 1,15,947	DOSAL DOSAL DOSAL DESCRIPTION OF THE PROPERTY	554 508 244 544	000 000 000	200 -07 -07 -07 -07	8,083 2,631 2,631 8,394 1,455 3,461	804 877 661 2,031 308 487	1,609 1,733 1,327 3,649 930 1,930	6,241 4,639 13,007 2,732	6n6 70	126  5 46	60 6	854 201 46 48
	MARKET TO THE	2,47	-	10,58,377	******	***		***	\$1,635	4,858	10,113		1,112	337	90	1,130
1 9 9 9 6	Paridpur Backorgunge	54 87, 70,	663 024 110 258	1,81,803 8,31,035 1,38,236 3,01,113 9,47,187	**************************************	909 755 733 909	003 103 104 006	212 222 234 646	5,470 7,239 3,831 5,141	1,183 2,450 1,863 984	1,424 8,402 1,146 2,932	6,840 0,057	98 757 614 84	130 2,231 498 217	36	298 1,094 1,112 251 4,615
	CHITTAGONG DIVISION,	1,62,	nos	0,17,107	*****		-	730	21,701	6,456	9,904	37,161	1,503	3,076	90	19
1 2 3	Tippera Noakhali Chittagong	74,	925	1,98,508 1,49,825 2,20,788 5,64,121		3 845		***	4,958 8,547 4,156	665 437 978	1,785 1,451 1,782	7,408 5,435 6,913	890 391	495	158	1,583 ,53  1,685
	PATHA DIVISION.	2,00,0	0	-,-,-,-	******		221	***	12,656	8,077	\$,018	19,751	1,981	100		
	Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga	63,0	04 09 71 48 09	3,15,261 3,02,874 2,28,259 2,20,209 1,38,851 2,74,984 2,93,561	######################################	***	201 201 200 200 201 201 201 201	-1.00 -1.00	6,746 9,339 6,718 9,137 3,031 5,208 10,635	1,130 1,961 3,191 1,470 457 898 1,399	3,759 3,062 2,803 3,080 1,710 3,027 3,429	\$30,684 \$14,362 \$12,700 \$13,387 \$,288 \$9,728 \$15,454	416 1	681 7 s 498 146	8 4 39	661 946 945 184 ** 3 54
	Total BHAGALPUR	2,84,8	35	16,73,999	tries .		100	7	50,898	10,536	29,460	81,802	471	1,405	61	3,90
3 1	Divisios.  Monghyr  Bhagalpur  Purnea  Makla	16,61 65,51 82,21 45,58	3	8,10,312 9,26,453 2,09,741 79,211	ope da greater dpp:soc	464 497 744 498	*** *** ***	704 	5,566 4,038 4,793 2,605	3,310 2,166 1,562 472	2,095 2,:11 2,238 803	11,501 8,415 8,482 3,879	81 60 863	45 116 237 104	88	131 23 23 1,31
	Total	1,79,97	4	8,25,717	177000	***	***	101	17,000	7,500	7,877	82,377	700	Bud	88	-
1 (	Orissa Division.	45,68 21,23 15,00	7	1,22,250 91,668 62,041	Squidge gaughg faxyys	***	500 200 200	, 111 , 684 , 865	4,193 2,518 2,252	1,800 729 445	1,113 712 582	6,626 8,959 8,278	888 758 31	2.77 98 163	6	1,型
931 12	Total BRAND TOTAL Cotal for 1695-96	82,88 14,05,43 17,88,18	7	2,74,232 7,70,987	errex di la		000		8,893 1,78,333 1,88,846	2,563 48,525 44,062	2,407 71,008 71,041	13,863 2,98,761 2,97,949	1,378 8,033 7,154	8,217 9,539	6 623 816	16,873

Altonaca

100				-		13							1											
65			10	MATI	TEN.	ANCE EMENT	AND r.		1		1			ent.	Hos	PITA	LO ANI	0	BANIT	ATION	AND		(EDIC	
Grantu to University.	Inspections.	Training and ensois		Righ schools.	Middle schools.	Primary schools.	Total.	Grants-in-aid.		ocnoin renings.	ALMOSTERISOUS.	Metunds.		General medical establishment.	Ordinary expenditure.	Pemale medical treatment.	Total		Vaccination establishment and charges.	Sanitation charges.	Total.	Grant-in-aid.	Scholarships.	Total.
17	18	11	9	90	21	22	23	34	2	26	1	27 28	2	9   8	0	30(a)	1		81	89	83	1.	4(4)	
000 000 000 000 000 000	Ra. 10,69 5,26 6,05 18,32 8,28 2,78	5 9 8 4 5		156	Re. 3,578 1,911 2,510 5,020 2,289 1,067	Re. 8,00 14,40 15,38	8,57 8 10,00 2 16,00 5,01 17,67 1,23	09 4,1 02 6,0 29 36,1 72 10,2	110 6 23 4 48 8 46 6	343 177 1.0 345 2.1 131 1.8 106 1	18 51 34 69 53	Rs. Rs	925 988 903		384 ,550 ,941 ,550	Ba,	2,3	019 360 . 384 . 550 .		Rs. 914 59 9	Ra. 214 \$9 9	Re.	Rs.	Ra
301	46,316	6	-	156 1	5,874	87,88	8 54,41	1,02,1	58 4,1	82 5,9	38 .	2,13,	002	. 12	,813	1,500	-	_	-	872	990	***		***
dest dest dest dest dest	12,861 7,685 4,047 7,609 6,558 38,820	8 9 4 2 1 5 2 1 2 2	34	1 1	-	12,943		0 20,8; 4,2; 0 24,3; 3 6,4;	38 4 38 4 36 5 13 6	39 12,3 71 1,6	77 89 02 20	68 49.0 31.0 21.1 25 35.5 27.9	95 73 1,1 83	180 5 2	,692 ,774 ,023 ,427	443	2,4	74 65 27	50	96	146	200 200 200	700	14
												2,02,0	7,1	20,	.016	443	11,3	56	50	96	146		140	14
100 115 100 100 100	4,746 9,189 3,260 8,408 8,194 5,847	4,87	1 400	2, 2,	664 497 991 865 987 349	5,661	06- 3,497 903 7,787 8,648 3,183	14,96 7,83 32,78 2,60	3 36 8 33 4 84 3 62	8 2,18 0 78 4 1,16 8 9	9 8	30,11 13,11 4 80,90 2 15,38	98 59 66 83	3,	514 090 555	480 180 ,311 14	7,56 1,96 1,95 2,91 3,66	11	04 04			***	***	35
	34,044	7,700	8	11,	353	5,661	94,722	98,055	3,06	6,02	0 26	6 1,66,76	8 94	14,		,985	17,64	-	1	-	100		-	441
1	1,172 2,235 7,846 1,797	2,454 4,840 7,204	141	2,0	328 390 374	814	5,796 1,890 6,914	29,777 32,035 24,363 23,035	1,785 345 715	2,873 538 636	-	43,11 54,49 34,97 49,00	9	11,1 8,1 18,9	26 .	24	4,04 11,12 8,13 13,93	9	100 100 010			. 2	80 3	91
	-,000	7,003		6,4	1976	814	14,600	1,09,210	3,547	5,807	100	1,75,61	52	2 37,2	45	, i.e.	37,24	B		7,00		. 8		31
	8,818 7,861 7,010 3,029	2,700	371 101 801	2,0 2,7 5,6	23 10	5,153 4,617 8,439 6,208	28,777 16,639 19,161 64,570	4,654 4,397 5,649	797 542	116	***	45,046 29,143 32,478 1,06,656	***	7,9	15 1, 13 2,	550 749 071	11,439 9,694 9,184	79	-	-	00 ;;;	97	9 27	9
	7,345 7,061 5,460 5,594 3,378 1,160 5,487	818 424 487	260	3,3 2,0 1,8 3,3 1,8 1,1 1,8	71 11 11 79 81 7 15 18	,711 ,968 ,613 ,910 ,406	19,205 3,071 14,201 (5,379 9,951 15,025 19,208	18,011 889 12,226 409 1,095	1,285	3,481 €83 4,160 1,095 3,407	2,628	29,423 31,444 24,718 27,644 15,434 27,419	2,650	6.70	36 11 35 32	510	6,768 7,251 4,218 7,766 3,562 5,689 3,773	500	99 2,04 2,67 43 1,03	8 8,55 7 2,57 3 48	9	97	6 27	0 1 04
42	,344 1	,294	141	15,4	80 66	,608	83,260	83,488	6,270	15,195	2,564	1,82,121		-	-	10	80,325	608	7,99	1	-	411	- Continue	4
8	403 g	8,864	1,800	2,59 1,71 2,09	2 15	,504 ,040 ,667	23,578 17,632 31,245 2,021	1,140 1,213 1,229 12,589		630 99 317	***	31,450 26,833 29,378 18,945		14,01 4,51 2,00 2,91	8		14,010 4,515 2,058 3,688	***	18 890	18 800	000 111 001	300	80g	
	1	2,864	1,300	10,10	40	,211	63,476	16,171	2,169	1,840		1,06,606	***	23,49	19 6	79	24,171		832	832		800	590	
2,	120	15.	100 700 744	2,15 70 2,17	3	447	2,602 707 2,178	94,608 18,047 9,083	489 902	1,053	944 944	41,395 37,462 17,931		2,46 2,66 3,95	0		2,485 2,659 2,920	\$18 1,181	994 048 200	1,181	257	200	257	
	010 21	700	1,480	76,30 77,86	7 2,20	-	5,482 3,29,326 3,73,220		26,962	55,807	-	86,768 12,02,450 12,26,642	-	1,71,95	9 10,4	79 1,	8,064 82,438 57,805	1,693 8,071 2,306	9,477 18,409	1,093	857	2,006 1,163	-	

4,-	MBD	IOAL-	concld.	911	26.—2	CIEN	TIPIO A	ND OTI	ier mi	NOR DI	PART	MEN!	тв.	298U ANNUA ALLOWA ANI PENSIC	NCES	80-	-STAT	TION] BINT	BRY LNG.	ANI
1				1	Pubi	to Bri	RIBITION	E AND			public			Fund		in the				T
Lunstic Acrium.	Refunds.	Miscellaneous.	Total.	Experimental cultivation.	Horse fairs.	Cattle fairs.	Other exhibitions or fairs,	Total.	Voterinary charges.	Ball and stallion charges.	Botanical and other Gardens.	Provincial statistics.	Total.	Persions and Provident contributions.	Graduitien.	Stationery purchased country.	Other stationery.	Printing.	Lithography.	
85	26	36(a)	37	38	30	40	41	42	48	44	45	46	4/7	48	40	50	51	52	53	
B.s.,	Rs.	Rs.	B.s. 2,019 2,369 1,898 1,609 4,150 2,840	*** *** *** ***	11.5.	Rs.	285	Re. 385	D.s.	R4.	Re.	RG.	B4.	Ra. 737 664  196	Ba.	Re. 403 800 830 443 1,130 850 2,968	Ro,	Ra. 924 222 378 703 472 2,690	Be. 58	1,1 1,3 1,3 1,3
800 600 600 900 900 117	295 295 290 990 820	000 000 000 400 020 020	1,832 1,774 1,150 5,405 2,578	***	000 000 000 000 000 000 000	600 000 577 060 091	2,687	2,687	000 000 012 000 000	 84 84	000 000 000 000 000	000 000 000 000 000	2,667  84 2,741	189 390 300	090	409 637 42.1 902 554 3,093	000 000 000 000 000 000	683 946 880 387	300 362 363 193 193	1,50
eso gaq gaq gad gad gad	400 000 000 000 000	000 000 000 000 000	8,099 1,994 1,370 9,311 3,669 1,875	***	000 000 000 000 110 000	024 262 204 242 241 241	940 124 200 201 201 201 201	001 000 000 000 000 000	934 994 999 399 040 040	203	000 000 000 000 000 000 000	987 894 896 998 694 695	283	190 000	### ### ### ### ### ###	487 350 649 1,169 97 266 2,988	000	607 629 1,710 1,487 286 712 5,831	988 935 935 936 500	1,04 77 8,38 8,00 66 91
200 201 201	040 040 040 040	000 000 000 000	4,568 11,217 6,379 18,939	111	***	001 001 001 517	780 494  1,264	780 404  1,244	gen Boo boo end	114 030 000 101	100 201 107 109	000 000 000 000 000	750 404	194 275 992 245	28	488 575 809 547 2,426	50.1 25° 005 984	402 1,726 456 201 3,964	\$1 31 31	701 700 700 800
993 993 993	242 245 200	480 144 500 105	12 581 9,694 10,183 32,458	201	200 200 204	904 900 900	0.03 809 838 838	800 901 900	844 894 844	***	***	***	000 000 100	43	201 201 002	815 489 779	25	300 775 269 1,466	19	10000000000000000000000000000000000000
000 000 000 000 000 000	000 000 000 000 000 000 000	8,296	16,841 13,663 6,866 8,196 4,911 6,743 8,778	201 201 201 201 201	849 000 000 000 000 000 000	300	08 1,164 3,779 200 	68 1,184 4,000 200	000 111 211 200 217 217 000	36 270 160 406	000 000 000 000 000 000 000	007 606 607 208 900 502 207	36 68 1,454 4,099 300	567 252 384 74	750 1,000	364 885 1,612	1,401	1,284 1,371 1,79 3,846 0.4 908 9,911	39	四一年四十五日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日
000 000	000 000 000 171	## ## ## ##	14,382 6,335 2,056 8,586 25,309	404 447 344	000 000 040 011	008 890 003 111	949 664 995 849	000 000 000 000	600 600 600 000	646 600 646 777	00 500 000 000	000 000 000 000	164 169 243 241	108	100	325 320 523 200	***	880 180 817 486	30	一年一の前部語
-90 -01 -02 -03 -03	000 000 000	8,298	3,007 2,916 4,101 10,114 2,12,163 1,92,810	942	  	490	9,467 9,170	9,867 W,480	464 468 443 443	608	A91	001 000 007 237	10,560	4.681	1,778	960 301 129 600 80,941	1,901	000 814 436 1,919 30,087 28,778	201	1 名[四十二日

Macada and American	No.	7.57	t,—11	IECEL	LANE		DIA DUV	31	83,-	-Pamin	B BELI	SF. RAI	L-	41.— RAIL. WAYS.	MINOI WORK & NAV GATIO	RA	IL- YS.	45.—	CIVIL	WORKS.
e purposes.	traction of	pur pur	TY BE	TAB-	unforeseen		contributions.				A STATE OF			expendi-	Kardenyo Arry k				HARGE OFFI	OF CIVI
Donations for charitabl	Rewards for the destruction dogs, wild animals and	Staring buncalows	Other notte addition		charges.	Miscellaneous refunds,	Provident Fund contril	Total.	Charitable relief.	Public works.	Miscellaneous.	Working expenses.	- 11:	Miscellancous Railway ture,	Local canal charges.	Capital expenditure.		Forry establishment and contingencies,	Refunde	Total.
3	86	57	8	a 1	0	00	60 (a)	61	62	63	64	65	T	66	67	68	-	60	70	-
	200 200 200 200 200 200 200 200	Rs. 38 1,27	8	10	364 12 109 680 153	80 148	Rs. 513 101 99 245 236 210	Rs. 1,31; 1,53; 20; 1,18; 38; 2,03;	5	Ra,	Re.	Ra		Rq.	Ra.	R4.		17 344 5,263 618	R	31
	141	1,70	-	. 8,	084	38 1	404	7,25	***	- 1			-	70		240	-	6,212		6,34
	110 103 100 111 1011	905 191 1,932	34	18	80 2	88 69 50	478 74 97 179 326	581 407 97 1,276 1,543	460	9,93 6,26 1,18	9 97	000 000 000		800 800 800 800 800 800 800 800 800 800	600 604 244 600 600	20.0 20.0 00.0 00.0		1,002 270 600	908 933 313 4 2 900	1,000 877 600
												***		000	607	***	1	,872	***	1,87
0	948 944 933 900 900 145	781 789 380	900 900 900	1,3	50 22 67 43	25	196 391 81 404 196	1,139 391 4,890 1,296 1,568 398	000 015 016 016	8,74/   518	***	000 000 000 000 000 000		0 0 0 100 100 100 100 100 100 100 100	006 006 000 101 101	000 000 000 000 505 000		771	200 202 000 100 000	10
		1,925		6,2	85	5 1,	287	9,692	136	4,268	1,451	***			484			781	004	781
	603 603 600 111	094	000 100 100 400	7	83	4	116 433 269 337	131 1,265 992 1,572	186	686 986 919 910	080 010 040 100	940 948 935	01		000 000 000	500 PRF 200 200	16	,117 ,507 ,051	pod see see	5,117 16,597 6,951
												***			***	544	28,	,665	***	28,065
	1	72 4,843 4,915	000 004 3.74	5,94 7,48	9 50 S	0 1	33	1,151 1,245 11,441 13,897	449 989	998 498	701	200	20 000		1,233 2,589 49 3,871	000	1253	895 14 409	500 000 000	395 14 409
	451	2,001 1,102 290 701 842 1,282 483 6,701	2,709 53	25	0 8 41 17 8 17 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1		04 04 10 14	5,964 1,427 1,049 8,318 1,016 4,608 1,197	6,546  67 178 3,075	1,267 16,277 2,174 11,868 29 1,53,510 1,85,125	876 8,826 13,808 847	600 000 000 000 000 000	001		001 400 900 000 000 000	668 998 898 686 984 886		588 893 137	430	638 1,323 637
									144						41.	,,,	400		400	4,518
	000 500 711	78 217 259	100 100 100 100 100	79 95 95	98	33	10 91 60	1,440 283 664 355 3,743	4,155	39,763	3	900 000 000 000	940 940 944 844		978	900 900 900	2,34		1,600	3,945
-		1,887	940 940 940	*** *** ***	62 26	18 10 17	8	1,033 225 201	260	21 3,281	18	080 080 000	0.00 145 166	12.0	66	046 205 111	216		***	216
-	38 1	9,425	8,031	\$7,951 \$2,972	3,730 1,873	7,83	-	-	259 18,092 664	3,302	24,078	444	***	-	4,849		44,518 43,379		2,030	116 46,548 45,689

#### 45.-CIVIL WORES-comeld.

-				A TOP C	IN CHAI	OF PU	BLIC WORK		1	7		_	
	Origina	l Works.			Rep	aire.		contin-		water			
Givil buildings.	Communications.	Miscellaneous public improvements.	Total.	Orth buildings.	Continuation for s.	Miscellaneous public improvements.	Total.	Establishment and con general appertaining public works,	Tools and plant,	Water-supply and works.	Drainage works.	Total,	Total.
79	78	74	75	76	77	78	70	80	81	83	85	84	8
Ra. 11,203 8,271 1,388 6,722	5,875 9,363 18 398	P.a., 7,484	Rs. 30,140 14,146 10,001 16,326 14,748 5,084	Ra. 6,848 2,962 9,679 9,089 93	Ra. 1,24,194 41,883 31,713 68,416 84,861 22,177	1,207 206 3,494	Rs. 1,32,439 43,845 41,392 68,416 94,156 25,764	Re. 17,380 7,483 9,740 19,199 13,833 6,540	Rs. 163 44 30 1,341 193 73	Ra., 1,363 1,781 8,315	Pa,	Ra. 1,00,101 67,885 63,553 1,09,497 1,22,930 87,461	Ha, 1,62,11 67,3 63,8 1,14,71 1,23,44 57,8
27,486	54,855	12,765	95,034	28,671	5,73,244	5,007	4,07,019	74,156	1,744	5,459	20.0	5,80,425	5,10,60
0,139	8,658 13,744 2,426 14,076 12,604	8,040 550	8,658 16,784 2,976 22,215 12,004	235  8,188 582	82,650 83,926 86,545 27,654	76 339 66	1,40,010 32,686 34,266 66,799 28,236	94,021 15,657 14,171 23,614 10,347	200 146 123 290 253	8,834 2,781 2,815 2,460	1,780 241 1,869	1,88,088 65,113 54,496 1,16,633 58,838	1,84,56 63,111 84,66 1,30,50 84,63
8,139	51,508	3,590	63,237	9,005	2,92,450	481	3,01,936	87,610	1,139	15,889	3,480	4,73,281	4,76,10
9,114 7,250 23,934 14,796 4,884 1,510	5,830 21,621 11,851 26,109 11,528 8,572	1,061  183 3,499	14,944 29,922 35,285 40,907 16,595 18,581	6,841 7,938 5,013 2,599 2,457 4,952	37,327 46,998 38,638 34,275 20,718 19,632	1,286	44,168 63,931 43,051 36,874 23,176 25,870	14,698 17,002 14,410 21,855 7,985 9,728	497 759 319 760 171 253	3,987 1,616 3,185 2,480 2,404	380 947 2,345	77,014 1,04,379 95,219 1,05,760 50,330 40,461	77,401 1,04,379 95,592 1,06,781 40,930 60,441
61,490	85,011	4,733	1,51,234	20,800	1,95,998	1,286	2,27,069	85,078	2,816	12,984	3,680	4,88,163	4,75,966
11,423 16,401 4,260 47,106	20,935 61,663 13,547 60,815	= 1	82,358 78,064 17,756 1,97,921	20,251 12,109 6,168 3,558	83,059 47,661 14,709 46,271	\$08  67	88,818 59,770 20,877 40,596	13,665 22,379 9,688 18,639	619 1,780 54 464	5,185 17,368 7,855 7,890	500 000 800 001	1,05,645 1,79,311 56,230 1,84,151	1,30,762 1,36,366 56,550 1,91,083
79,139	1,56,960	1	2,36,100	48,086	1,41,700	576	1,84,361	04,271	2,867	37,728	des .	4,26,317	5.53,646
15,926 10,913 49,821	9,090 19,912 3,212	800 900 AAR	25,016 30,825 86,033	1,995 4,621 16,063	88,280 83,929 40,674	664 666 888	40,375 38,850 61,787	14,300 14,461 24,262	980 67 798	1,265 2,043 668	6,413 1,170	88,188 87,115 1,40,489	86,18 87,51 1,40,50
76,660	82,216	100	1,08,874	22,679	1,17,858		1,40,862	63,023	1,779	8,972	8,582	8,13,793	3,14,30
1,650 18,670 2,048 626	11,431 56,265 30,385 91,477 28,451 1,28,706 54,837	2,412 4,596 4,482	18,081 77,347 30,385 28,121 39,277 1,33,248 54,337	2,488 1,461 96 799 160 867	70,681 65,477 85,630 36,935 11,637 53,404 31,789	1,790 4,478	78,160 69,734 88,736 40,416 11,797 56,754 31,780	\$1,491 40,412 26,951 38,499 18,180 22,918 30,363	983 9,202 583 372 993 337 1,007	7,850 1,763	000 000 000 000 000 000	1,87,963 1,85,635 1,23,965 1,01,308 86,010 9,10,557 1,18,387	1,67,68 1,85,25 1,85,25 1,85,45 2,16,87 1,25,57
28,194	3,25,112	11,490	3,59,796	5,871	8,26,686	7,457	3,59,284	1,98,106	8,766	9,924	***	9,00,975	9,11,4
28,583 7,794 7,865 6,577	58,889 46,094 11,836 3,330	2,486 1,220	89,928 65,638 19,710 9,023	7,694 8,283 7,130 2,707	86,619 60,950 77,457 20,732	1,258 288	88,318 76,971 89,075 23,459	23,747 26,503 23,412 7,004	2,019 1,550 260 280	10,000 414 1,657 1,513	000 020 000 000	9,14,008 1,68,173 1,30,113 41,358	2,13,00 1,68,17 3,89,11 44,35
40,749	1,20,718	3,842	1,74,289	28,494	2,45,758	1,546	2,78,798	82,844	4,186	13,070	***	5,48,736	5,51,61
87 909	4,350 28,718 160	608 2,185	5,045 31,858 109	800 815 6,280	39,522 15,834 14,379	300	40,022 16,640 20,986	26,433 5,370 8,063	206	67	000 000 000	89,751 83,871 29,346 1,42,970	50,66 53,67 29,34
1,096	8,59,615	30,146	87,066 12,25,650	7,398	17,63,300	16,069	77,657	27,886 6,66,978	20,550	98,913	19,744	39,76,009	40,25,13
,70,671	11,15,414	23,183	16,09,288	1,81,865	21,15,027	16,129	28,11,022	6,26,847	21,863	81,975	5,198	44,20,199	14,71,55

to. III.
uring the year ending 31st March 1897.

o	ONTRIBU	TIONS.			DEB	e.		INT	EREST O	N DEBT.			BALANO		
To Provincial.	To other Boards.	Total.	Payment of loans.	Deposits and advances,	Provident Fund withdrawals.	Savings Bank investments depo-	Total.	On account of last year,	On account of current year.	Total,	Total expenditure.	Deposits.	Actual balance.	Total,	
96	87	88	80	90	90(a)	90(8)	91	92	93	94	08	96	97	98	- 8
200 (100 000 000 000 000	Rs.		Ra.	Re. 20,87 6,77 6,34 31,02 16,89 5,45	1	Re.	Rs. 20,877 6,776 6,341 21,021 16,893 5,458	***	Rs.	Ra,	2,70,59 1,08,61 1,08,94 2,06,63 1,92,80	5,0; 9 4 10,58 6 2,40	25 36,84 79 88,00 85 60,67	68 41,893 07 33,996 81 32,426 78 43,084	
	8,869	3,863		77,860	_		77,366			***	9,56,080			35 24,459	
4,600 0,871	1,319	5,319 26,337	1,63 3,50	15,801 6,992	100	910 150 050 089 9.07	24,384 29,421 14,835 15,801 6,992	000 000 000 314	699 636	889 636		3,45	3 35,24 5,76 2 51,74	7 15,247 8,221 7 53,679	
7,273	5,045	39,316	6,13	96,306			91,388	***	1,518	1,818	8,48,359				1
194 194 198 195 197	471	671 471	10,22/2,12/2	16,386 28,823 4,835 6,574	#1.6 14.6 14.0 14.0 14.0 14.0 14.0	See Gnd Voo Goo Goo	15,380 26,165 18,461 23,823 4,535 8,574	640 400 600 660 907 907	8,308 353 8,731	8,398 363  8,761	1,41,186 1,77,747 1,41,114 1,90,974 79,666 98,728	\$,35 236 2,68 8,88	76,80 77,03 93,84 7 1,96,17 3 31,10	82,157 77,034 7 96,086 1,20,866 36,9/2	
				140	1.	-4			The second	0,781	0,00,363	15,850	4,51,78	4,67,138	
	54.6 509 And Doc	***	000 244 200 201	15,603 36,396 7,656 18,139 69,725	eed eed her as	910 711 711 711	18,002 36,528 7,656 12,139	600 600 600	400 600 445 840	000 200 200 200	1,88,205 8,18,179 1,17,638 2,71,972	1,60s 29,35; 4,117 17,928	20,623 11,591 82,108	49,800 15,708 99,429	
				3 14							0,00,009	53,408	1,66,673	2,19,278	
	000 019 130	000 000 264	200 200 200 200	8,067 12,734 42,518 63,319	204 274 205	140 140 140 100	8,067 19,734 42,518 63,319	600 600 600	9,848	3,948	1,64,621 1,50,037 2,40,069 5,63,718	3,693 7,028 9,798 20,519	1,18,500 48,685 36,484 2,02,669	1,23,193 65,713 46,283	
000 465 000 800	900 101 201 201 201 201 201 201	13,000 18,455 42,000 300	7,911 5,066 6,108 8,316	17,712 16,872 24,431 83,739 31,391 28,531 29,638		200 200 200 200 200 200 200 200	25,683 16,872 24,431 88,805 31,391 34,639 37,946	178	#60 % 044 045 644 035	178	3,04,728 2,79,756 2,39,237 2,76,670 1,40,872 3,61,447 3,61,188	1,836 15,276 954 9,019 6,330 270 17,119	40,867 50,346 9,077 -8,009 -3,553 42,476 -84,116	43,708 95,632 10,031 5,110 2,727 42,746 —06,997	
-		70,756	27,401	2,82,304	***		2,89,708	178	354	178	18,26,892	50,754	81,188	1,81,942	
148 107	Per Bac Dac Bac	618 918 307	506 140 040 040	34,544 55,947 21,239 22,067	\$00° 200° 200°	103 496 200 034	24,544 55,847 31,239 22,657	946 107 198 198	1,183	1,135	3,04,368 3,06,943 1,94,038 52,598	96,390 7,127 7,016	- 3,732 -21,390 67,916 28,187	22,596 -14,372 67,916 32,202	
	133	4.43	H	1,0,701		***			1,195	1,195	8,97,247	40,402	67,982	1,08,444	
	the the tor	000 8mi 4mi 000	900 000 104 205	975 3,472 3,915 8,802	000 040 040 040	660 200 200 200	978 3,472 3,915 8,862	000 000 000 000	900 900 900	***	1,16,085 93,874 62,816 2,72,77 5	3,865 2,609 2,760 9,807	47,997 16,334 13,432 76,763	51,862 19,028 15,192 86,070	
10	1,085	2,759	64,851	7,45,937 6,69,694	2.57	2,088	7,86,280	178	18,242	15,420	70,93,454	2,40,843 3,36,971	13,39,367	15,56,212 14,05,689	

FORM

# Statement showing the details of the works undertaken for the improvement of

			I)	MPROVINKRIT O	F WATER-SUPPL	Υ.				IMPRO	VEMENT O
	New	tanks dug.	New we	ella sunk.	Existing sources repaired or of improv	herwise	Watch employ guard so of drir water-si	red to ources oking		Village site improvius, laying out st drains, &c	oments,
DISTRICT BOARD.	Number of works.	Coat.	Number of works.	Oper,	Number and description of works.	Cost.	Sources and number of men employed.	Cost.	Total expenditors.	Number of villages.	Cost.
1	2	8	4	6	6	7	8	9	10	n	19
Burdwan Division, lardwan	1	Rs. A. P. 2,452 0 0	18	Re. A. P. 6,075 0 0	Re-excavation of four tanks and clearing wells.	Ra. A. P. 1,354 0 0	(c. 1844	202400	Rs. A. P. 8,681 0 0	*****	_
Birbhum		983300	10	1,318 0 0	Deepening four wells and re- excavation of a tank.	145 0 0	*****	##\$044	1,863 0 0	0.00.00	101-11
Bankura		yer <b>id</b> a	and numer- ous tempor- ary wells.	1,308 0 0 218 0 0 1,720 0 0	Clearing silts from 14 wells.	61 0 0		******	1,781 0 0	-	424-240
Midnapore	zes	Person	88	1,044 0 0	7 tanks re- excavated. 8 tanks im- proved. 45 wells clean- sed.	1,183 0 0 81 0 0 107 0 0		******	2,315 0 0	***************************************	
Reoghly		\$42.53	18	8,381 0 0	6 tanks re- excavated.	1,271 0 0 206 0 0	1 30	022460	5,487 0 0	POSEOS	appara
Howrah	1	*738 0 0	7 tube wells, 16 big wells and 3 pits in Kanana- di.	2,389 0 0	3 tanks re- excavated.	887 0 0	*****		3,404 0 0	e22000	*******
TOTAL	2	3,190 0 0	175	16,727 0 0	900	3,404 0 (	· ····	800	23,321 0 0	100109	21,010
PRESI- DENCY DIVISION	733	1,888 0 6	Tube-wells 2 Eing-wells 26	146 0 0 1,105 0 0		5,247 0 0		******	8,334 0 0	000110	parent
Nadio Murshida- bad	****	aganso ossitag	28 40	3,040 0 0 1,981 0 0	Re-excavating four tanks. Clearing two tanks. Bepairing five		000000	\$25109 614171	- 8,116 0 0 2,721 0 0		,41998
					wells.	740 0 0	0				64
Janecre "	M 355	1,295 0 0	181	453 0 (	tank at Bangaon Outcherry. Deepening tank at Keshubpur. Railing stank at Jhenida.	20 0	0	606686	2,305 0 0		
Khulua ,	. 2	2,349 0 0		*****		557 0 120 0	A 1955	*****	2,469 0	0	-
Total .		6,482 0 0	273	6,728 0	19	6,740 0	0		18,945 0	0	1

No. 14.

Sanitation in the Bengal, during the year ending 31st March 1897.

LAGE S MOVAL PION.	of Bank		Co		NCY OF		SANITARY AT MENTS AT AND PEST	FAIRB	OTHER OBJECTS ( TO PROMOTE TI HEALTH, COM: CONVENIENCE POPULAT	FORT AND		
pear an	of prickly ad rank ation.	1.	erved.	Boave	nging es ments	tablish-						
Number of villages.	Cost.	Total expenditure.	Names of towns and villages conserved.	Number of men and of carts.	Coats,	Arrangements made for the supervision of these establish- ments.	Names of places conserved.	Chest.	Particulars.	Cost.	Grand Total.	RIMARES.
18	14	15	16	.17	18	. 19	30	21 *	22	23	24	25
601	Rs. A. P.	Rs. A. P.	202	***	***	***	877.606	Rs. A. P.	069 840	Re. A. P.	Rs. A. P. 8,881 0 0	
***	340	016	***	***	***	***	Joydeb Ken- duli and Buckreswar.		Pay and travel- ling allow- ance of Civil Hospital Assistant on cholera duty and price of medicine.	133 0 0	1,781 0	4
ood	***	000	***	096	opa	240	>	848004	Civil Hospital Assistant on cholera duty with medi- cines, &c.	214 0 0	1,995 0 0	
***	***	***	***	000	0.00	***	Hatnagor fair and Mohadeb méla,	MI O O	Supply of pure water to Con- tal town.	8 0 0	2,876 0 0	
			1									
***	***	944		***	4.59	***	\$10.00	040442	Treatment of cholera cases in the Sadar and in the Jahanabad subdivision.	151 0 0	5,639 0 0	
.00.0	405	***	##X	***	***	***			Drainage and jongle cutting.	90 0 0	3,584 0 0	
	-		-	-		-	*****	336 0 0		596 0 0	24,253 0 0	
***		***			***				331.43			
***	200	***	***	244	149	***	Gangas a g a r Fair. Haron Fair	2,582 0 1 105 0	of Suti nadi.	854 0 0 876 0 0		
900					-		555.105	2,087 0	and a	1,730 0 0		
441	100	***	244	***	0.00	181	35.039	*****	Repairing northern drainage cut.	251 0 0	4,345 0 0	
									Repairing southern drainage cut. Building and repairing two pairs of mar- boat, &c.	884 0 0		
		1					1		Dutt, our	1,624 0 0		
***		9 80 0		***	600	***	******	m.u	Contribution for re-excava- tion of Bhow- anipur khal,	1,509 0 0	3,690 0 0	
					-			-				
809	-	0 86 0		27 62.0	000	298	40000	2,6.7 0	0	4,863 0 0	26,561 0 0	

			1. JBPU 3044080			VEMENT OF WATE	en-gupply.	1000			IMPR	ANGIODIS FOABERS O
		New	tanks dug.	Net	w wells sunk.	Existing sources repaired or o improv	s of supply therwise	guard of dri	chmen byed to sources inking supply.		Village site impr	ovemente, i strouis, ko.
DISTRICT BOAR	D.	Number of works.	Cost,	Number of works.	Oost,	Number and description of works.	Coeft,	Sources and number of men employed.	Cost.	Total expenditure.	Number of villages.	Coest.
1	1	2	8	4	5	6	7	8	9	10	11	11
-	7		Rs.		Ra. A. P.		Ra.		Re.	Bs. A. P.		Ro.
RAJEHANI, DIV SION. Rajehahi		1	500	16	2,013 0 0	8	2,199	******	******	4,712 0 0	900000	And,
Zia)shani 🚧	***		1000						1			
Affin .								4				14
Dinajuur		800	414 000	7	1,767 0 0	2 Packa wells	e1	848***	Marco	1,818 0 0	904894	******
Jalpaiguri		674	DD#0#0		111000	490004	444797	525.002	200.000	000 + 50	Beliege	605
		140	100487	18	1,628 0 0	#33	1,848	1	4	2,980 0 0	0\$0.40	009304
				8	2,404 0 0		embes	*****	*****	2,404 0 0	*****	
	***	***	117500	32	4,399 0 0	880100	******	880***	******	4,899 0 0	300 %)	Ban 3
Paona								_				
Total	***	1	800	81	12,201 0 0	43	3,008	1	6	16,318 0 0	*+1909	2,000
	1									1		
BACCA DIVISION	H.											2000
Ducea	9.01	2	691	pucca.	3,900 0 0	4 tanks Bepair of tube	244	*******	801001	5,185 0 0	000.004	
				wells 30 tube		wells.	594	1				
				wells and sink- ing tube wells.								
	-				14.45//	194						
Mymensingh	***	90	5,277	69	6,087 0 0	84 tanks	6,404		866487	18,308 0 0	987786	
											1	
												434,000
Paridpur		16	4,718	1	16 0 0	15 tanks	8,191	******	*****	7,855 0 0	222.000	641100
Backergurge	***	16	7,070	***	800101	7 tanks	250	*****	******	7,380 0 0	******	-
											1-1-	*
Total		59	17,786	901	10,003 0 0	60	10,369	800107	*****	88,728 0 0	800100	044111

	VILLAGE REMOVA	n sithe, &c.		Оон	VILI VILI	Y OF TOW	WS AND	SANITARY ARI AT PAIRS PESTIVA	AND	OTHER OBJ CULATED TO THE SAFETY COMPORT AND COP EURAL PO	PROMOTE , HEALTH, CONVENIENCE		0
	DOST	of prickly and rank etation.		norved.	Boaven	ring establi	ishments.						
	Number of villages.	Cost.	Total expenditure.	Names of towns and villages conserved.	Number of men and of carts.	Coart,	Arrangements made for the supervision of these establish- ments.	Names of places conserved.	Cost.	Particulars.	Cost.	Grand Total.	Remares.
70 0	. 18	16	15	16	17	18	19	20	21	2.3	23	24	28
		Ra. A. P.	Rs. A. P.			Ra.			Rs. A. P.		Rs. A. P.	Ra, A. P.	
	«30000	040±04	9 # # # # # # # # # # # # # # # # # # #	******		****** /	******	Khetur and Promtall, Manda	170 0 0 11 0 0 181 0 0	A c h i n ta la drain. Patia drain Sivpur drain Kanchan Pro- sadpur drain. Betarstola Total	76 0 0 107 0 0 57 0 0 110 0 0 380 0 0	5,273 0 0	, A ***
	000404	*****	0+2000	******	000049	e g d 2 d ta	10:000	*****	***800	Removal of dramage ob- struction. Repairs to Di- najpur drain- age canal.	618 0 0 329 0 0	2,765 0 0	-
	*** 000	*****	040899	147080	******	*** **	*****	000114	******	\$ \$ 4 & \$ \$ \$	*****	******	· 21 - 40;
	000 000	633790	520000	40000	•••••		# W V V O D	****		Rangpur drain- nge works. Drain cut at Kurigram. Drain cut at Nilphamari.	2,268 0 0 57 0 0 14 0 0		*
										Total	2,316 6 0	5,296 0 0	
	U 10 100	9+0+++	900v1v	*****	141000	600+00		100100	4+19++	606.71	00 + 000	2,404 0 0	1 -
100	******		*******	******	.,,,,,	******	# H + + + + + + + + + + + + + + + + + +	******	000+01	***************************************	******	4,399 0 0	
	043694	******	*****	000,000	000000	*****	012124	••••	181 0 0	*****	3,643 0 0	80,137 0 0	
	fedege			*****	nu 0000	*******	000140	1. Kartic Ba- roui Fair, 2. Nangai- bund Fair. Total	708 6 0 43 0 0	601	*****	8,995	
	995 pbd	000 000	to: 600	000000	*****	>0 <b>&gt;</b> 189	>01114	1. Bagunbari Pair. 3. Sambhu- ganj Fair. 3. Forabari Fair.	18 10 466		200.00-0	18,863	-
	*****	00000	000404	000111	*8498*	*****	****	000 000	******	110180	000,	7,855	
	*****	920000	1++000	******	11111	*****	1001-0	*****	400.00	, s a cod	005000	7,390	
	*												,
	******	101800	980000	400.00	******	400,50	******	******	1,544	000110	000+00	39,972	

				IMPR	OVEMENT OF WA	PER-CUPPLY	r.	,		IMPRO	ABMENT OF
	New	tanks dug.	New	wells sunk.	Existing courses repaired or oth improve	of supply	Water employ guard a of drin water-	hmen yed to sources aking- supply.		Village site improv	ements,
District Board.	Number of works.	Court.	Number of works.	Cost,	Number and description of works.	Court,	Sources and number of men employed.	Cost.	Total expenditure.	Number of villages.	Cost,
1	3	8	6	5	6	7	8	9	10	11	19
Omittagone Divi- sion,		Be.	804	Ra.	One Pasteur filter. Pive tube- wells. Pive tanks	Rs. 808 268	}	0+4000	Re. 1,365	17	Re. A. P.
Nontrieli	3	1,875	3	49	Three tanks cleared. Sign b o a r d s put to s ver- al reserved tanks. Re-excavation of two tanks.	109 94 415	}	*****	2,048		*******
Chittagung	040	******	***	400000	One tank cleared, Iron wire fene- ing round a reserved tank,	7 668	}	40.00	663		******
Total	3	1,875	1	40	19	2,548		*****	8,072	17	4,412 0 0
Patra Division.  Patra	èse	9418.5	*	605	16	306	0000+0		<b>\$</b> 90		
Gays		***1807	Đ	2,123	149 wells repaired and buckets and tothers supplied.	1,880	xad000	*******	8,478	Clearing and constructing deams and filling up gas in hawada, Jahanabad and Aurangabed.	1,923
Shahabad	1	196	5	1,508	40 wells cleansed and repaired.	1,370	104000	00000	8,183	\$00.00.00	
Borom		+04680	1	171	175 wells	9,100	*****		9,271	*******	pg6 == 1
Champaran	001	80.**	3	875	19 wells	1,388	+0 +00B	000000	1,763	2 Pucks drains were constructed on both ades of road Mother's to Segow- lie, in the villages of Singus and Henjaris.	1,039
Musaffarpur	•	<b>650**</b> *	***	404 MM	208 and more wells and two tanks.	4,800	0.0000	00004	4,809		01254
aromus .		*******	1	663	118	230	******	401411	633	1	รก
Total	1	196	81	5,426	898	18,726	******	100001	24,243	8	8,336

VRT	TILLAGE NI RENOVAL C ATION.	ITES, &C., OF RANK			CONSERV	VILLA	F TOWN			ARY ARRANG IS AT PAIRS PROTEVALS.	BRALTH	JECTS CALCUITE THE SAPI COMPORT, A IRACE OF EUT	KTY.	
	Removal	of prickly peak vegetation,	r	Conserved	Renve	onging e	etablishr	nents.						
	Number of villages.	Oper,	Total expenditure.	Names of towns and villages on			Cout,	supervision of these cetablish-	Names of places conserved.	Court,	Particulars.	Cont.	Grand total.	
	18	14	1.5	16	17	1		19	20	81	23	23	24	
	*******	00000	Re, A. P		******				492440	001102	071.000	Re. A.	P. Re 8,60	
	******	******		*****			***	!	******	*****	Putting draipipes on roadurveying drain. Clearing beapassages.	977 0 0	8,219	2
	000 ego	******	*****	*******		- 41			\$60.100	***************************************	Total .	1,170 0 0	Gas	
	001.00	.,,,,,	4,411	001 1000	****				*******		******	1,170 • •	9,554	
			800	******	880	•••	******		******	*******	Medical aid to the poor during the outbreek of cholera and other conta- grous dis-		2,046	
	040yya		1,988		11 men and curts.	83		and	aring the dres of eckund Ratiganj faire,	68	Disinfecting wells, prices of medicines, and pay and travelling allowance of Santary Inspectors.	1,781	8,659	
٠	*****	*** **	** ***		******	0.03000	*******		000 444	*00 74*	*******	1,381	4,518	
0.1		****	400 04	404204	l sweeper	48	Pag 100	(2) 8 (8) 4 (4) T	enoppy ithours, tchnar, linway, kochuje	3,779	Miscellancous	383	13,463	
h 0	*****	#G4000	1,020	******	000004	F45.20(	**************************************	}	Mote.	*****	000 000	****	2,903	_
													dir.	•
Pole		*854.4	989-40	********	***bod		000);,			0		••••	4,508	
001		*******	371	001-00	000000	0,0013	*****	••	••••	• •	P 01 000	*******	1,198	,
20		000100	8,838		13 men	897			7	3,847	10 400	4,848	36,958	

				Imphot	EMERT OF WATER	-CUPPLY.				Impa	OVENTRATO VEG
	New	tanks dur.	New	wells sunk.	Existing sources repaired or o improved	of supply therwise	Watch employ guard of of driv water-s	nking		Village site impr d.s., laying out drains,	etroets,
DISTRICT BOARD.	Number of works.	Cont.	Number of works.	Cont.	Number and description of works,	Cosh.	Sources and number of men employed.	Onet.	Total expenditure.	Number of villages.	Court,
1	8	8	4	5	6	7	8	9	10	11	13
BHAGALFUR DIVISION. Monghyr	1	Rs. 1,547	17	Re 4,537	Tanks 2 - Weils 74	Pa. 476 8,526 4,002		o o . O o o	Ra. 10,006	<b>6</b> 00311	*****
Bhagalpur	Fam.	1,980 1,979	Tube well Ordinary well	67 99	Ordinary wells 10 Tube-wells 13	159					
	1	2,181		196	Pamine. Tanks 3 Tank 1 Do 1	220 276 797 681 1,461 3,215	***************************************		11,810	фейзар	
Purnes us		600504	Porce pumpa	279	Masonry wells 40	1,878	111000	usadot	1,657	PQB 491	
alda 👑 🚧		\$880 +Q 0	0es	000004	Tanks 4 Wells 16	1,518	900 PR4	Beebod	1,618	007004	क्षा स्टब्स
Total	В	9,138	90	5,012	165	10,38n		******	84,474	041111	
Oglasa Division, Cuttack	004		1	40	1	7	900 500	0+4000	47	094.00	454.630
Pari	1	800	7	205	Repairing and clearing 34 wells between Bathara and Puri.	840	01.400	400000	1,125	850107	
Total	2	600	8	87.5	*****	347		000111	1,178	****	7.814
GRAND TOTAL	70	36,133	689	87,064	1,363	86,088	1	•	1,51,268	19	7,814

TATION TATION	AL OF RANK			CONSERV	ANCY OF T	OWNS	MENTS AT	Y ARRANGE. FAIRS AND TVALS.	HEALTH, O	THE CALCULATER THE SAPETY, OM PORT, AND ICE OF RUBAL LATION.		
Remot pent	ral of prickly rand rank getation.		Deerved.	Sonve	nging estab	lishmente.						
Number of villages.	Ooust.	Total expenditure.	Names of towns and villages conserved.	Number of men and of carte.	Onst.	Arrangements made for the supervision of these estab-	Names of places conserved.	Cost,	Particulars.	Cont,	GRAND TOTAL.	RUMARKS,
18	16	18	16	17	18	19	20	81	22	28	34	36
										Ra.	Re.	
*****		*******	*****		6+1005	*******	*****	***************************************	100 400	0.000	10,086	
044.000	*****	B1 - 800	40 B00	101500	<b>8</b> 86 × 0 a			1	Civil Hospital Assistant and medicines for cholera duty.	80:0	12,038	
*******	*******	*1****	*****	+8+++1	oBE#90	*****	P01000	044500	ecolles	D00+00	1,657	e de la companie de l
900 oor	*****	000100	******	****	******	<b>0</b> 000++>	edg o s p	000-010	Clearing snage from the rivers. Subsidy paid to steamer services.	968 718	2,491	
tas or o	440.00		******	110,40		***	******			978 1,798	96,279	
										21.50	50,273	
101 osq	191000 040000	+00.000	000 *** 000 : ; :	0.00000	.0+200	000	000***	000000	Pree vaccina-	1,181	47 3,806	
W 201	000320	7,816	200 000	ro-do-	987	******	419443	8,395	tion.	1,191	2,363 1,86,060	

## APPENDIX A.

Statement showing the number, income, and expenditure of Pounds under each District Board in Bengal during the year 1896-97.

	N	POUN			Інсоми		BEF	<b>E</b> NDITU	RB.		Burplus		st March	
District.	Parmed.	Managed direct.	Total.	Parmed,	Managed direct.	Total.	Parmed.	Managed direct.	Total	Permel.	Managed direct.	Total.	Balance due on Six 1697.	RHMARK
1	8	8	4	5	6	7	8	9	10	11	18	13	16	15
BURDWAR DIVISION.				Pa.	Re.	Re.	Ru.	Re.	Ba.	Rs.				
Rurdwan	189 76 28 141 76	G	76 28 141 78	10,819 7.657 1,406 7,813 7,707	******* ******* ******	10,510 7,657 1,406 7,813 7,707 3,303		000+00 900+00 900+00 900+00	606 637 21 863 49	9,918 7,070 1,395 7,258 7,658 3,202	Ra,	Ro. 9,913 7,020° 1,383 7,254 7,638 3,268	2,431 105 1,427 427 339	
Divisional Solal	559		559	39,415	0-0400	88,405	1,909	641460	1,900	30,496		36,496	4,779	
PRESIDENCY DIVISION.  24-Parganas Nadia Murshidabad Jessoro k hulns	76 148 71		71	82,7%5 12,970 22,75° 5,454	318	5,903 \$2,785 12,870 23,068 5,454	402 669 400 250 143	170	4/2 669 400 420 143	5,500 \$2,116 12,470 92,500 5,311	148	5,500 82,136 18,470 82,448 5,311	1,682 9,453 654 901 338	
Divisional Total Rassinant Division	-	- 8	587	79,761	318	80,079	1,864	170	2,034	77,897	149	78,045	12,969	
Rajshahi	78 112 64 172 60 108	9	108	12,334 23,846 20,957 13,752 10,639 9,965	· 86	12,734 23,902 20,957 13,752 10,999 9,465	83-1 202 5 452	46	834 202 8 46 462	11,500 29,644 20,957 13,747 10,639 9,513	86 314	11,500 23,730 20,957 13,747 10,983 9,513	336 2,678 374 262	
Divinional Total	598	9	607	91,493	448	91,939	1,493	46	1,539	90,000	400	90,400	3,844	
DACCA DIVISION.  Dacca	267	8	180 267 124 84	7,462 40,626 4,678 11,251	**************************************	7,462 40,6-6 4,678 11,387	29A 3,096 1,115 900	50	23A 8,024 1,112 250	7,234 37,601 3,566 11,051	86	7,284 87,602 8,564 11,187	1.788 0,103 751	
Divisional Total	647	8	638	04,017	136	64,153	4,564	60	4,614	59,453	86	59,539	6,636	
CHITTAGONG DIVISION.	126		126	6.664		0.00	2.710							
ippera Sonkhali Shittagong	90	***	90 70	6,774 4,441	*****	6,464 6,774 4,461	1,543	*****	1,543	6,379 6,441	*	8,121 6,379 4,461	8.5 1 8 7.00	
ivisional Total	28G		286	117,879	0.0	17,879	1,938	*****	1,938	15,941		15,941	8,001	
PATHA DIVISION.	36 65 1 53 85 173 90	34	36 6 35 53 86 178	5,116 30,140 8,952 4,730 9,962 6,151 4,447	619 5	5,116 10,780 5,987 4,760 9,962 5,181 6,487	681 78 408 183	417	661 495 498 185 185	6,485 10,082 5,45 t 6,586 9,163 5,163 6,393	802	4,425 10,264 5,600 4,758 0,962 6,140 4,393	49 700 707 893 215 100	
vivisional Total	503	37	540	45,587	624	46,161	1,498	417	7,918	44,080	307	64,846	2.427	
BRAGALPUR DIVISION.									-	-			_	-
lenghyr Chagalpur Turnea Iaida	56 71 88 84	1	72 84 54 54	12,773 25,285 59,101 16,125	427	33,475 59,101 16,128	48 99 325 667	#1 83	184 182 325 657	18,786 33,186 58,776 14,671	106	18,074 31,292 88,776 14,471	2,9%5 754 618	
ivisional Total	268	2	270	110,287	616	110,903	1,126	164	1,200	109,161	452	109,618	8,568	
ofteek	74 50 25	28 5 1	70 5: 20	4,251 2,498 1,6 6	47 686 134	4,298 3,184 1,820	162	68 258 34	851 25H 196	8,968 2,404 1,526	-21 428 100	8,947 2,920 1,624	877 561 170	
ivisional Total	149	8	187	B,435	867	9,302	465	8.0	R06	7,200	607	8,497	1,108	
GRAND TOTAL	3,584	67	3,661	4,65,814	3,007	4,59,831	14,637	1,207	16,044	4,40,977	1,800	4,43,777	89,827	

APPENDIX B.

Statement showing details of Educational Expenditure (vide Form No. III, columns 17 14

		INSPRCT	H SAT-		INTAI!	NED OR	MANAGRD Boards,	BY D	ISTRICT				AID	ED BY BO.	ARDS.			
District.		LING	TRAVEL- ALLOW- ALLOW- CIES OF)	r special	including by Joint-	Middle	schools.	r boys.	d schools.	including		Middle ac	chools.	Primary so	phools for	e girla.	ols.	1
	the second secon	Sub-Juspectors.	Inpecting pandits.	Training and other schools.	High schools schools managed C. mmittees.	English.	Vernacular.	l'rimary schools for boys.	Frand total of Board	Special schools training schools.	High schools,	English.	Vernacular.	Upper.	Lower.	Primary schools for girla.	Total primary schools.	
1		3	3	4	1 5	6	7	8	9	10	11 -	19	13	16	15	16	. 17	
BURDWAW DIVISION. Bordwan Birbhum Bankura Midhanere Hooghly Bowrah	•••	Rs. 7,262 3,616 8,994 10,718 6,142 2,051	Ra.  3,833 1 839 2,065 2,615 2,170 704	Ra.	Rs.	73.1 2,061 1,007	R4. 8 576 1,911 2,510 6,293	Rs.	Rs. 8,678 1,911 2,530 5,029 2,066 1,223	Rs. 9,857	Rs 00	Rs. 10, 97 3,825 3,815 8,218 8,218 2,740	Rs 3,244 1,254 2,534 2,788 1,495 894	Rn. 7,584 2,885 4,813 4,551 4,070 2,583	Re, 10,851 8,157 8,660 21, 40 8,585 2,072	Ra. 782 650 031 1,638 1,038 739	Pa. 18,537 8,038 14,4 2 27,074 13,693 5,628	
Total	***	33,835	12,508		136	3,980	12,281	***	16,877	3,563	60	32,865	12,378	26,256	88,063	5,176	87,497	ISI
PRESIDENCE DIVISION. 24-Parganas Nadia Murshidabad Jessore Khulra Total	000	11,111 6,922 3,700 5,246 6,262	1,750 692 800 3,423 296 5,461	***	900	***	1,461 1,896 1,430 1,090 5,860	***	1,484 1,886 1,480 1,080	134 144 196 196	300	4.015 7,23% 3,079 4,790 8,391	4,543 1,907 1,219 4,090 2,552	2,788 3,076 2,986 5,110 8,336	19,843 6,959 8,741 6,071 8,4-0	890 1,524 381 1 \$35 1,683 4,891	23,141 11,656 11,359 14,016 12,826 73,478	5 5 5 1
TAJETTI TE							,				}							
Rajahahi Diuajpur Jalpaguri Rangpur Bogia Pabna	Da.	4,366 5,905 3,260 7,872 1,817 8,660	1,877	4,878	**** ****	943	664 2,552 407 2,563 3,987 369	5,601	8,497 191 7,737 8,649 3,185	1,625 60 360 2,245	71	2,594 2,031 1,750 3,130 1,320 3,165	1,433 1,177 1,907 4,531 1,214 2,237	4,887 2,988 1,622 5,906 8,085	11,517 8,476 8,4-2 16,455 6,791	288 311 471 737	16,032 11,755 5,575 25,629 13,178 70,008	A 100 Miles 100 Miles
Total  BACCA DIVISIO	900	27,089	7,555	7,708		1,529	9,824	5,661	31,722	6,840		14,093	11,569	19,705	47,151	3,159	10,000	-
Dacea Mymensingh Part tpur Backergunge		7,861 7,491 5,405 6,087	3,311 4,744 2,441 8,710		***	050	2,827 1,890 5,074	814	5.795 1,890 6,914	155 263 420	265	6,847 6,417 6,983 4,560 23,109	4,394 3,583 2,266 1,8:3	6,376 8,344 4,119 5,626	9,853 12,646 6,183 9,236 37,918	2,307 1,940 4,303 1,823	18,536 22,000 16,007 16,397	- 1 12 15 10 TR
CEITTAGONG		26,844	20,000	1,600	012	***	0, 10, 1											
Division. Tippera Noakhali Chittagong	80 61 60-	4,923 3,956 4,111 12,980	3,245 2,862	2,700	***	485 *** ***	\$43 1,519 2,621 8,365	***	8,025 1,519 2,721 5,065	110	360	2,662 7,200 2,406 7,655	1,7:1 1,943 2,660	7,726 4,318 4,151	13,590 8,384 9,428	8,591 9 3 1,990	24,907 13,965 15,467 84,089	200
PATRA DIVISIO	-			-														
Shahabad Saran Champaran Muzaffarpur Darbhanga	***	4,356 4,069 3,014 4,165 1,944 4,135 3,024	2,889 2,192 1,545 2,429 1,434 3,034 2,658	00 t	001	1,063 1,312 2,365	8,370 2,071 1,778 8,373 828 1,115 325	181 981 886 980 984	3,970 2,071 1,778 3,379 1,881 1,115 1,087	73 467	000 000 000 000 000	1,906 GNU - 5N5 469 1,043	180	2,770 3,291 2,511 1,797 1,889 2,237 8,837	11.721 11 528 9,87 8,871 6,746 11,256 15,560	1,220 491 69 793 38 417	15,711 15 319 11,961 11,461 7,465 13,919 15,697	THE PERSON NAMED IN
BWAGALPUR	-	22,007	*1 logs	000	***	2,303	22,000		20,501	Q-Q17		4,142						
Monghyr Monghyr Bhasalpur Purnea	001	3,458 3,798 8,820 1,870	• 2,985 2,935 2,5%2 1,849	2,864	1,300	3,556	3,647 1,641 1,500	**** *** ***	- 4,947 2,554 4,508 1,500	**** #00 #40	192	676 1,021 774 1,073	432 458 2,363	2,805 5, 60 2,782 4,822	9,826 9,247 12,838 3,648	9,617 308 85 353	15,948 12,870 15,76 8,323	
		13,343	10,451	2,8:14	1,500	2,556	6,648		13,408		193	3,544	3,250	18,159	30,849	3,447	59,165	-
OKTESA DIVI	•														20 000	1,714	20,361	
Puri	000	4,645 8,351 2,534 10,520	8,313 4,67% 1,607	***	100	505	1,650 386 1,830 4,606	447	2,602 5% 1,830 5,014	100 175  275	900	3,557 2,146 785 6,483	887 1,631 1,020 3,234	8,774 4,310 2,016	12,873 7,105 3,929 24,207	2,122	12,600 0,366 89,325	100
GRAND TOTAL	481	1,83,180	90,527	(0,56)	1,456	10,834	63, 142	6,922	1,93,010	7,173	2,148	1,15,818	68,140	1,47,445	3,68,448	59,903	545,090	

DIX B.

mourred by the District Boards in Bengal during the year 1896-97.

-				1													
SCH	OLA BRI	176 HH	HD'IN-					Mischi	LLANE	es.					ednes-	primary income.	
					uilding furnitu		abi	mento to di hed hoels,	l p	rizes and rewards.		outingent charges.	char		primary	rdinary in	
Primary schools.	Secondary schools.	Special achools.	Total.	Secondary schools.	Primary schools,	Total.	Secondary schools.	Primary schools.	Secondary sehoola,	Primary schools.	Secondary schools.	Primery schools.	Total miscellaneous	Grand Total.	Total expenditure on tion.	Ratio of expenditure on education to total ordinary	REMARKS,
19	20	91	23	23	34	25	26	27	28	30.	30	81	83	38	34	85	86
213 845 179 908 234 9,077	20. 64 20. 451	740	613 477 815 631 696	32	3/06	1.8		255 3 183 175 310 43	000 000 000 000 000	Ra. 653 500 704 1,605 650 8,750		Rs. 173 400 713 St	1,05 3,13 1,86 3,61 713	51,044 20,925 51,988 57,003 37,695 3,037	Ra. 28,596 13,745 22,316 40,277 83,197 5,989	15:6 14:04 19:7 18:1 16:7 18:1 16:6	
160 130 134 639	343 326 289 437		402 400 430 871 671 622	250	350	\$00 100	200	- 177 191 195 117 533	000	748 277 325 674 232 2,270	36	5146 94 47 717 68	1,00 1,52 63	31,095 7 21,173 7 3,583 7 27,966	35,421 19,217 15,376 33,298 19,190 1,12,062	20:6 15:73 16:4 17:33 18:8 7:8	
298 233 189 453 198 100	967 125 141 309 419 229	63 11	565 368 310 845 628 320 3,064		302		123 71 	20% 28% 114 905	000	467 1,987 478 498 588 3188	212 41 253	863 47 519 202 3,131	2,18 73 3,22 3- 64	1 80,199 13,152 3 50,996 0 15,883 1 29,813	21,261 21,933 9,011 31,967 8,787 18,961	18'0 17'3 7'8 18'1 14'1 22'1	
706 1,1% 342 358 2,090	**************************************	804 324 325	706 1,788 542 712 3,548	80	23	25 60 A	16	19 37 b	000 000	1,310 1,797 149 3,256	28	78 336 538 487	2,5	3 51,426 8 84,979 6 43,094	30,274 37,833 25,252 27,990 1,20,381	24°1 10°5 21°6 11°2	<b>x</b>
310 422 194 926	430 365 355	195 30  225	935 797 540 2,281	341 201 543	33	373 203 575	11	88 82 53	000 144 000	890 819 767 3,026	184	849 84 334 1,267	3,11: 1,400 ),330 4,850	8 29,143 6 32,473	84 907 £1,864 £2,910 70,441	24·5 19·9 17·3	F .
1,147 584 824 205 113 370 624 3,807	833 606 272 355	214 2.6 424 474 126	1,461 820 1,581 1,265 511 725 634	80 84 67	68	68 50 94 67		5,138	74	1,634 8,662 693 1,657 055 1,680	33 236 185 35	200 161 1,935	1,634 4,661 3,244 4,160 1,095 3,407	30,421 31,445 24,717 27,646 13,436 27,419 86,040	24,806 27,742 14,159 21,255 11,055 23,927 90,718	12.2 9.3 8.9 11.0 11.8 9.4 7.6	13-1
498 120 268 288 1,194	219 226 116 165 726	56 79 113	778 425 404 866	23 269 73 521 905	146 16 161	21 434 73 56	33	53 143 53 143	6 36	1,859 2,018 905 673 8,137	315 29 38 382	668 367 11.1 313	3,032 3,027 1,133 1,701 8,493	\$1,450 24,433 21,378 18,945	94,071 91,648 23,681 12,748 81,206	13.6 13.0 13.0 13.0	
527 190 112 839	833 209 815 1,686 9,864	261 91 103 547 4,424	1,621 480 902 8,012 27,707	8N 121 226 436	36 49 1,581	101 121 202 484 4,798	200 200 350 379 2,293	564 424 81 1,000 9,370	116	1,680 1,253 543 3,485 85,623	35 369 364 1,781	\$39 140 370 10,700	2,609 1,984 1,733 6,340	41,495 27,463 17,665 86,633 13,02,383	\$2,606 \$1,735 10,839 65,350 8,55,664	97-7 30-63 19-3 26-d	4

APPENDIX G.

on Public Works in Bengal during the year 1896-97.

	7			Region Se.									\$		
-	2		*83001	lines of malary of District Regin	400000 400000	***************************************	Re. 669 for 8 months Re. 700 for 4	868 656 656		25.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,020	Es. A. P.	Eth Septem- ber and after-	256 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 2 1
	2		palq	(o) 7 earmineo no 8 manteo 10 7 (d),	\$255g	5.7	100	13.6	8	SIL SING SIL CONS	26	E		P. 0	2
:		ej.	(2)	Of column 7 (s) on columns 7 plus 7 (d).	1.444	16.9	151	Pore	22.53	#39538	9.44	3	99	200	14.0
.2		PERCENTAGE.		Of column 9 on column 7 (s).	2011112	9.88	\$	8329 CALL	8	232212 2522122	48.7	25	100	20 E	28.0
=		Ē		de mario so (s) 7 mario 10	177773	7.0	\$- 60	11:5	10.0	201120	10-8	2	3	0 0	6.9
				Of column 7 (4) on column 6,	622222 62462 <sup>4</sup>	0.19	. 2.5	51.4 67.7 68.5	8.89	0.53	0.89	178	61.5	70.2	10 14 10
40		soft)	ia s	Annual charge on account o Engineer's salary.	12.54 12.54 12.54 13.54 15.54 15.54 15.54 15.54 15.54 15.54 15.54 15.54 15.54 15.54 15.54	28,190	8,360	6,187 12,186 3,000	23,921	7- 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	28. 60g	4,800	4,807	3,071	18,113
telt			9	.latoT	B	5,89,667	1,94654	76.261 61,263 727,36	4,94,9UT	1,04,379 96,480 1,46,721 44,480	4,98,773	1,10,788	1,95,908	56,230 1,91,058	6,53,962
			(%)	Continuention.	482522	1,408	0 4 6 6 0	1,9 <b>05</b>	2,397	68832B	1, t20	8	1,000	27.8	2,004
		1895-07.	(6)	Weter-cupply and drainage,	R	19,827	10,004	3,116 3,456 8,414 8,444	916,112	00 m m m m m m m m m m m m m m m m m m	18,778	5,185	17,368	7,555	37,738
		WORKS IN	S	Tools and plant.	** ** * * * * * * * * * * * * * * * *	1,766	3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,139	- 125 - 125	2,824	90	1,730	45.4	5 S
-		OR CIVIL W	(3)	Hetabilehment.	Re. 16,741 7,356 9,542 18,454 13,636 6,429	72,000	34,081	35,587 14,208 25,341 10,086	86,213	13,836 16,717 16,717 7,765 9,486	86,613	18.581	31,370	9,413	62,267
		BAPPEDITURE O	3	Repolita	1,21,042 61,945 68,416 85,165 85,165	4,06,400	1,40,010	28,750 23,926 66,799 84,236	3,61,521	222233 52225 5225 5225 5225 5225 5225 5	2,26,000	816,818	90,770	20,877 40,698	1,94,341
		Barra	(0)	Original Works.	2.00 11.14 16.28 16.38 16.38 16.38 16.38	007.00	\$	13, 50 20, 20, 21 20, 20, 21 20, 20, 21	20,047	14, 944 86, 486 46, 486 16, 545 15, 581	1,61,254	26 26 26 26	78,064	1,07,923	2,36,160
			(9)	Vorries Metabilehment, &c.	2 1 2 2 2 1 1 2 2 2 1 1 2 2 1 1 1 1 1 1	6,248	1,983	768 6770 6770	2,761	26	797	4117	16,007	6,951	274 Cours
			3	Public Works ander " Tealer	* * * * * * * * * * * * * * * * * * *		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11,108	14,610	8,760	4,368	1			
-	1	nem	state,	36 amufoo) ennibasque (atoT	Ba. 1.06,014 1.08,148 2.06,634 1.22,806 71,097	9,56,086	2,73,684	1,48,859 1,46,673 1,92,471 1,87,879	8,44,350	1,41,787 1,77,747 1,41,114 1,114,074 17,4876 998,726	8,38,388	1,62,306	3,15,179	1.17.638	R,80,590
100				Length of District Roads,	# # # # # # # # # # # # # # # # # # #	2,776	<b>6</b> 00 000	1,984 9 543 5 543 6 449	2,730.4	1,000 1,000	4,390'6	3	9.999	147	1,525.8
•	0	Torre	10 4	amufoo) selies erange af seria.	2,000 1,751 1,751 1,751 1,154 1,154 4,000	13,803	1,963	and	11,977	20 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	16,065	\$,700	6,27.6		14,000-8
•				Serial number.  District.	Burdwan Birbum Birbum Garange Hangore Garange	Total	26-Parpasse	Nurshidabad	. Total	Rajshahi  Dheapar  Ashranrif  Forra	Total	1 Daces	2 Myrnemeingh	B Faridpur	Total
-		•		Буунов.	Bard ess		Presidency			- Periodicial		Decra			

000000000000000000000000000000000000000	* 4	RA. 500	1,000 890 880 887 for 4 mortis, 400 for 6 mentis, 350 for 2 months.	1,000		Rs. 450	700 for 4	900 to 250		# 2 S	****	
- 0.0 0.0 0.0 0.0	6.1	en éo	10-6 112-1 16-7 80-8	16.9	11.3	8.5	7.08	9 4	2.0	15.05	13.1	0.
187	8.03	9.98	22.02	E 29	26.3	11.6	18.8	1979	16.6	\$11.5 51.5	9.95	20.03
33.6	22.5	25	#3.3 85.4 87.4	41.53	42.6	88	27.2	\$0 50 \$0 50 \$0 50	34.6	9.00	1.0	8.7
22.0	0.00	7,0	12.00	80 80 12 12	1 0	6.9	1-80	11.4	OE) Gra	16 55 57 57 50 50 50 50 50 50 50 50 50 50 50 50 50	1.01	5
26.93	55.7	65	86.74 86.12 75.9	20 St. 10	61.7	9.11	\$ 29	67.0	6.53	5.19 57.6 52.0	33.6	60.09
7,200	16,800	7,003	15,671 10,845 11,439 110,889	13,700	78,197	6,000	9,400	8, 903 2,036	25,789	6 4 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	13,648	2,51,096
1,40,503	8,14,201	1,08,230	1,94,335	2,73,906	11,08,553	2,18,637	2,01,047	1,30,113	6,90,349	32,520	1,46,389	191,161
1, N37	2,307	099	95 P. E. E. S. C.	988	3,471	3,00	450	47.8	2,458	\$ 00 E	162	16,422
2172.0	9,554	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 P	1000	15.171	10,096	416	1,657	13,670	20.00 13.00 12.00 10 10 10 10 10 10 10 10 10 10 10 10 1	2,509	1,35,150
2000	1,779	*1 *3 *3	100 00 00 00 00 00 00 00 00 00 00 00 00	1,087	5,766	2,018	1,558	258	4.135	011	314	20,530
14,261	80,718	\$1,031	18 18 18 18 18 18 18 18 18 18 18 18 18 1	212,215	1,53,236	22,303	151'62	22 6,4,3 8,5	80,386	14.90g 6.33g 8.01;	\$7,589	6.47.708
54,550	1.40,563	72,462	06,938 18,781 18,485 18,485	54,734	3,37,090	86,313	. 76,971	25.075	2,73,063	40.092 16.640 14,535	71,219	19,40,488
\$2,335 53,935	1,08,874	13,691	14.93 30.35 50.35	1,33,948	3,57,344	820,928	55,638	19,700	1,74,289	8,046 29,717 0,040	41,043	12,10,860
326	409		888 748 653	1,990	3,994	8,945	4 4 9 9 9	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,945	118	116	66,723
*******		F. 6.	25,956	3.451	2.02.131	:	37,844	* :	37,844	:: °S	3,392	2,08,155
2,48,064	6,63,718	2,04,725	2,70,738 2,74,670 1,40,172	\$ 41,467 3,62,188	18,26,5:2	3,04,368	3,06,243	1,94,058	8,97,247	1,15,085 83,874 62,916	2,72,775	70,93,464
604 838 849	11,935	8	246 200 1,041.5 1,041.4	1,1507	6.323.5	787	1,719	8282	3,932.2	2005 2005 3 468	116	24,420.6
2.605 2.605	6,641	2,046	4.403 016.93 317.83 317.83	3,331	23,596	3,023	813,4	4,570	14,508	8,618 2,450 470	8,154	1,09,972-5 24,420-6
111	1	* 1	1111		1	:	i la	11	1	1 : :	ŝ	1
New Pitali Chittagone	Total	Pattos	Garra Sha ha bad Sanan Chemparan	Mazaffarpor Darbbanga	Total	Mongbyr	Bhagalpar	Parnes	Total	Cuttack Ba'nsore Pari	Total	GRAND TOTAL
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21.0		1				- and				:		
		Pains				Bhigalpur				Orise		

STOOKS OF RICE IN AND AROUND GALCUITA.

No. 3264 Statz.—The following is published for general information.

Secy, to the Gort, of Bengal. M. FINDCAND,

Statement showing the Stocks of Rice in and around Calcutta during Despuder 1897.

Stock in hand as compiled on-

Ballagiatta	1st week of Dec. 1896. Mds. 1,47,000	Ist week of Nov. 1897. Mds. 94,700	2nd week of Nov. 1897.  Mds.  1,02,500	Srd week of Nov. 1897. Mds. 1,13,500	4th week of Nov. 1897. Mda. 1,21,500	6th week of Nov. 1897. Mda. 80,000	1st week of Dec. 1887.  Mds.  86,000
E B	3,26,800	1,08,000	1,12,600	1,19,700	1,23,000	006,78	1,04,700
Pathuriaghatta, Posta, and	200	1,250	1,450	1,600	1,700	1,300	1,450
Tollygange, Chetla, Kidderpore, and Munshiganj Minor bezare (1) Other retail shops (1) Bamkristopur	88,800 8,40,000 12,000 71,100	25,700 29,40,000 29,50,000 29,300	2,40,000 2,50,000 88,300	48,900 2,40,000 2,50,000 35,500	23,200 2,40,000 2,50,000 40,900	<b>61,100 2,40,000</b> 2,50,000 36,800	2,40,000 2,50,000 48,400
Raidysbati, Nawshganj, Bhadre-	14,484	3,178	3,622	1,747	2,800	1,400	1,74
Total	11,32,994	7,82,928	8,09,073	8,22,447	8,47,150	7,69,800	7,98,495
On Railway premines on both sides of the river.	3,160 (on 7th	85,743 (on 30th Oct. 1897).	68,494 (on 6th Nov. 1897).	92,515 (on 13th Nov. 1897).	75,787 (on 20th Nov. 1897)	48,987 (on 27th	39,295 (on 4th
On boats not yet unloaded— By Port Commissioners' returns	15.90). 13,301 (5th to 7th Dec.	25.203 (30th Oct. to 1st Nov. 1897).	37,368 (6th to 8th Nov. 1897).	31,473 (13th to 15th Nov. 1897.)	27,015 (20th to 22nd Nov. 1897.)	83,033 (27th to 29th Nov.	
By Canal retirms	1896). 22,884 (5th to 7th Dec. 1896).	7,128 (80th Oct. to let Nov. 1897).	7,046 (6th to 8th Nov. 1897).	6,823 (18th to 15th Nov. 1897.)	14,100 (20th to 22nd Nov. 1897.)	6,900 (27th to 29th Nov. 1897.)	15,752 (4th to 6th Dec. 1897).
Orand Tutal of Stooks	11,72,339	9,01,002	9,22,778	9,52,768	8,64,052	8,57,720	8,93,221
					•		7

• This mart is in the Bowrsh district, and the figures have been obtained by local enquiry.

• Figures furnished by the Collector of Hooghly.

Shitto by the Railway authorities.

(1) Estimated as a constant quantity.

Secretury to the Government of Bengal.

M. FINUDANE,

The 7th December 2867.

# STATISTICS OF THE SEA-BORNE TRAFFIC OF CALCUTIA

No. 3306 Statistics. The following memorandum and statements are published for general information.

SPATISTICAL DEPARTMENT, The 7th December 1897. M. FINUCANE, Secy. to the Geet. of Bengal.

#### Memorandum.

THE sea-borne import and export traffic of Calcutta in food-grains during the week ending 21st November 1896 and the corresponding period of 1897 is shown in the following statement:—

			15TH TO 21	ST NOVEMBER	
		189	96.	18:	97.
1		2	3	. 4	5
Imports.		Owts.	Mde.	Owts.	Mds.
From Foreign Ports Ludian	***	8 44,114	11 60,044	2,613 48,851	3,557 66,491
Total		44,122	60,055	51,464	70,048
Exports.					
To Foreign Porte	•••	79,855 24,458	1,08,602 33,290	75,467 36,366	1,02,719 49,498
Total	•••	104,313	1,41,982	111,833	1,52,217

Imports.—The staples comprising the import traffic are shown in the table below, and the tigures for the period are compared with those for the corresponding period of last

			15TH to 21st	r November	
		189	96.	189	97.
1		2	3	4	5
Feod-ga	raine.	Cwts.	Mds.	Owts.	Mds.
Rice Paddy Whoat Tram and pulses other food-grains, barley, oats, &c.	euch as jowar,	82,729 4,890 46 6,957	44,548 6,975 63 9,469	3×,977 5,631 6,760 96	53,052 7,664  9,201 131
T	otal	44,122	60,055	51,464	70.048

Imports.—During the period under report, the imports of rice amounted to 38,977 cwts., against 32,729 cwts in the week ending 21st November 1896. The amount imported from Burma was 20,810 cwts., against only 5,719 cwts. in the third week of November 1896, that from Chandbali and Balasore 15,641 cwts, against 27,010 cwts. and that from the Straits Settlements 2,517 cwts. against nil in the corresponding period of last year. Imports of paddy and gram and pulses remained very nearly the same as in the corresponding week of 1896. ponding week of 1896.

Exports.—In the following statement the total quantity of each kind of food-grain exported by sea during the third week of November 1897 is compared with that for the corresponding period of 1896:—

		15тн то 21я	T NOVEMBER	
•	18	96.	189	)7.
1	2	3	4 .	ð
Food-grains.	Cwts.	Mds.	Owts.	Mds
Rice	393 32,153 4,418	91,669 535 43,764 6,013	98,865 3,718 2,233 6,618 404	1,34,566 5,054 8,089 9,008 550
Total	104,313	1,41,981	111,833	1,52,217

The exports of rice from Calcutta to foreign ports rose from 64,618 owts. in the The exports of rice from Calcutta to foreign ports rose from 64,618 cwts. in the third week of November 1896 to 74,534 cwts. in the period under report. There were no exports to Mauritius which took 40,011 cwts. in the corresponding period of last year. The despatches to Ceylon showed an increase of 45,616 cwts., and those to Aden of 5,262 cwts. The exports of gram and pulses fell from 11,952 cwts. to 902 cwts., and those of miscellaneous food grains from 2,947 cwts. to only 27 cwts, owing chiefly to the cessation of exports to Mauritius which

2,947 cwts. to only 27 cwts, owing chiefly to the cessation of exports to Mauritius which received 9,653 cwts, and 2 947 cwts. respectively in the corresponding period of 1896.

As regards Indian ports, the exports of rice during the third week of November 1897 amounted to 24,331 cwts., against only 2,731 cwts. in the corresponding period of last year, owing chiefly to larger exports to Bombay and the Madras ports. Exports of paddy to Cochin and Calicut aggregated 3,709 cwts., and wheat to Rangoon 1,736 cwts against nil in the corresponding week of 1896. The decrease under gram and pulses amounted to 14,485 cwts. in consequence of the cessation of exports to Bombay, which took 14,427 cwts. in the corresponding period of last year. ponding period of last year.

Detailed statements showing the sources of supply and the places of destination, both

as regards Foreign and Indian ports, are given below:-

Statement No. Is showing the Imports of Food-grains into Calcutta from Foreign and Indian Ports during the week anding 21st November 1896 and 1897.

	Porre.				Rice.	Paddy.	Wheat.	Gram and pulse.	Other food-grains, such as jowar, bar-ley. oats, &c.	Total
*	1				2	8	4	5	6	7
	From Indian Por				Cwts.	Cwts.	Cwta.	Cwts.	0	
	Madras	***	189 <b>6</b> 18 <b>97</b>	***	9	**************************************	******	407	Cwte.	Owts 407
	Coconada	}	1896 1897	406	40000	*****	*****	2,066		2,066
Madras			_		00000		100 :00	3,518	*****	8,618
	Masulipatam	}	1896 1897	000	*****	*****	*****	163		169
	Tuticorin	{	189 <b>6</b> 1897	e+ 0	-0 -1 -	87		******	* ***	37
0	Rangoon	{	18 <b>96</b> 1897	401	5,719 5,913	*4***	46	367	•••••	6,132
Borma	}		1908			*****	***	1,521	*****	7,431
	( Moulmein	{	1897	***	14,897	100.00	*****	******	******	14,897
. 1.	Balasore	{	1896 1897		<b>9,650</b> 830	3,730 864	*****	557	******	13,930
slasore	Chandbali	{	1896 1897	***	17,360 14,781	623 4,767	*****	3,406 1,717	000.00	21,389
	Total Indian Ports	{	189 <b>6</b> 18 <b>97</b>	***	32.72 s 36,460	4,390 6,631	46	6.949 6,760	*****	44,114
	From Foreign Ports	ł.								
hina-Hong-	Kong	{	1896 1897	800	*****	200 101	******	7	*****	7
traita Settlem	ionts	{	189 <b>6</b> 1897	***	2,617	******		*****	******	2,517
ictoria	***	{	1896 1897	•••	*****			10000	96	96
ew Zealand	100	{	1896 1897	***	*****	*****	*****	1	*****	1
	Total Foreign Ports	{	1896 1897	• • •	2,517	*****		8	96	8 2,613
	FORBION AND	[N- {		***	82,729	4,390	46	6,957		44,122
	DIAB PORTS	(	1897	004	88,977	5,631	*****	6,760	96	61 464

Statement No. 11, showing the Esports of Food-grains from Calcutta to Foreign and Indian Ports during the weak ending 21st November 1896 and 1897.

	Pozre.			Rice.	Paddy.	Wheat.	Gram and pulse.	Other food-grains, such as jowar, bar- ley, oats, &c.	Total
	1			8	8	4	6	6	7
To Fe	oreign Porte	•		Owta.	Cwte.	Cwta,	Cwte.	Cwts.	Owts.
Cnited Kingdom	***	- { 1896 1897	100	11,020	4	*****	976 417	000 00.	12.066 11,671
Mauritius	4 9 0	{ 1896 1897	000	40 011	000 001	000 000	9,668	2,947	62,618
South America-Deme	rara	( 1896 ( 1897	***	••••	000 000	*****	890	0 000 000	880
Wost Indies-Trinidad	• 8 6	{ 1896 1897	•••		00:000	400 000 000 000	859	101 100	330
Aden	0.6 0	{ 1896 1897	000	8,832 9,094	******	*****	08400 .	******	3,833 9,094
Arabia—Muscat	000	{ 1896 1897	• • • •	891	100100	******	000 000	454444	891
Ceylon	000	··· { 1896   1897	000	8,904 54,4 <b>3</b> 0	000 00a	****	906 96	37	9,109 <b>54</b> ,543
China-Hong-Kong	4.00	··· {1896 1897	100	*****	000 000	186	9	*****	194
Straits Settlements	4 00	- { 1896 1897	001	*****	******	153	129	00000	282
Tota'	Pureign Por	ta { 1896		61,618	1 100	338	11,953	2,947	79,965 75,467

	Ports.			Rice.	Paddy.	Wheat.	Gram and pulse.	Other food-grains such as jowar, bardey, oats,	Water!
	1			9	3	6	6	6	7
	To Indian Port	e.		Cwts.	Owts.	Cwts.	Cwte.	Cwta.	Owte
Bombay	000 000	{ 1896	***	1,8 0 9,130	*****	*** • • • • • • • • • • • • • • • • • •	14,427	*****	16,237
	Madras	··· { 1896 1897	***	738 1,288	900480	45 479	3,951 3,199	******	4,7%9 6,366
	Badagara	{ 1896   1897	***	1,247	******	******	000 100	******	1,247
	Calicut	· { 1896 1897	***	5,688	367	******	****	*****	6,960
Madras	Cannanore	··· { 1896   1897   { 1896   1897   { 1897	10.	249	******	******	******	*****	249
	Negapatam	··· \ 1897 ··· \ 1898 ··· \ 1897	000	6,945	8,342	******	00000	******	9,287
rá.	Tellicherry	1897 { 1896 { 1897	00.	499	****	16	******	11100	15
	Visigapatam	{ 1896   1897	•••	8	******	******	3	******	489
	Rangron	{ 1896	***	188 384	*** ***	1,786	1,114	1,471	3,773 4,068
B :rms	Akyab	{ 1896   1897	***	*****	*****	12100	90	******	90
	l l	- { 1896 1897	***	2	*** 202	******	3	100000	3 3
Tog	Moulmein	1896	***	600.000 600.000	*****	*****	184 198	*** ***	184 198
Hillagong	( Balascio	{ 1896 { 1897	000	******	991 990 999999	***************************************	324 102	*****	824 105
Palasore	Chandbali	{ 1896 1897 { 1896 1897	•••	000 000	000 000	10	114 30 41	******	114 20
	Tradal F 21 - F		•••	1	*****		187	*****	188
	Total Indian Porte		440	2,731 24,331	3,709	2,288	<b>20,201</b> 6,716	1.471	24,458 36,366
	GRAND TOTAL FORRIGH AND DIAM PORTS.	or { 1896 In- { 1897		67,349		393	82,163	4,418	104.813
-		4.001	***	98,865	8,713	2,238	6,618	404	111.838

## STATISTICS OF THE SEA-BORNE TRAFFIC OF THE MINOR PORTS IN BENGAL IN FOOD-GRAINS.

No. 3259 Statistics.—The following memorandum and statements are published for general information.

STATISTICAL DRPT., The 7th December 1897. M. FINUCAME,
Secy. to the Goot. of Bengal.

#### Memorandum.

THE comparative statements below give statistics of the import and export trade of the minor ports of Chittagong, Narayangauj, Balasore (including both Balasore and Chandbali), Cuttack, and Puri during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896:—

#### IMPORTS.

Port	le.			From Foreign ports.	From Indian ports.		tal.
				Owts.	Owta.	Owta.	Mds.
		(1896			405	405	551
Chittagong	***	1897			3,589	3,589	4,885
Nersyangan			***	*****	*****	*****	
Merskandan	***	1897	000				****
- •		(1896			245	245	334
Balasore por	<b>18</b>	1897			421	421	573
Outtack		1896				****	*****
Cattack	600	1897	•••	*****		4 0 0 0 0	*****
D		1896 1897					***
Puri	*80	1897	000				*****
				-			
200 4 3		( 1896	***		650	650	885
Total		1896 1897	•••		4,010	4,010	5,458

#### EXPORTS.

Po	rte.			To Foreign ports.	To Indian ports.	Total	
				Cwts.	Cwts.	Owts.	Mds.
Chittagong		1896			* * 4 * 4 * 0		
Unittagong	***	1897	401				50.000
97		1896					# Q 0 · · · 0
Narayanga	nj	1897					*****
73.3	.1.	1896	•••	****	21,875	21,875	29,774
Balasore po	Pts	1897			13,55 <b>5</b>	13,555	18,450
		(1896		2,805	436	3,301	4,493
Cuttack	***	1896	***	18,565	3,894	17,459	23,763
70 '		( 1896				*****	
Puri		1896 1897		000	90000		
						-	
		£ 1896	.00	2,865	22,311	25,176	34,267
Tota	и	1896 1897	-00	13,565	17,449	31,014	42,213
							-

The imports of rice into Chittagong during the week under report amounted to 3,069 cwts., of which 2,996 cwts. came from Burma against nil in the week ending 21st November 1896. The export trade of the Balasore ports fell off by 8,320 cwts., chiefly on account of smaller despatches of rice and gram and pulses to Calcutta. False Point despatched 17,459 cwts. of rice to Colombo and Cochin, against 2,865 cwts. during the corresponding week of the last year. Bombay, which received 436 cwts. of rice from False Point during the week ending 21st November 1896, drew nothing in the period under review.

Detailed statements showing the sources of supply and the places of destination, both as regards Foreign and Indian ports, are given below:

Statement showing the quantities of Food-grains imported into Chittagong from each Foreign and Indian Port during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896.

Ports From wi	fice imports		lice.	Pu	ddy,	W	leat,		n and	food-g	her ruins, Jowar, oats, &c.	To	TAL.
	· · · · · · · · · · · · · · · · · · ·	1896,	1897.	1896,	1897.	1896.	1697.	1800,	1897,	1890.	1897.	1896,	1897
	1	3	3	6	5	C	7	8		10	11	12	13
Foreign		Cwte.	Cwta.	Owts.	Cwts.	Owts.	Owte.	Cwts.	Cwts.	Cwts.	Owts.	Cwts.	Owts
Indian Burma—Rangoon kleutta kareyangan]	Ports	1 11/883	2,996	**************************************	11.000	00000	9	201	433	204	63	465	2,990
	Total		8,069		******	*****	0	201	448	204	63	405	3,58

Statement showing the quantities of Food-grains imported into Balusore from each Foreign and Indian Port during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896.

Ports from which imported		loe.	Pa	ddy,	W	heat.		n and	grains,	r food- such as barley, l, &c.	Tot	al.
•	1896.	1807.	1896.	1807.	1896,	1807.	1890.	1897,	1806.	1897.	1896,	1897
1	2	8	4	5	6	7	8	9	10	11	18	12
Foreign Ports.	Cwts.	Cwts.	Owte.	Cwts.	Cwte,	Cwts.	Owts,	Cwts.	Cwts.	Cwts.	Cwts.	Cws
¥11	*****	101000		****	******	-11048	600		40	*****	110.500	9-00
Indian Port.				1								
blousta	4 - 1 - 1	1	*** **	*****	******	,	243	223	411000	197	245	421
Total	******	1	40124+		*****		243	223		197	245	421

Statement showing the quantities of Food-grains exported from Balazore to each Foreign and Indian Port during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896.

Ports to which exported.	RI	00,	Pad	ldy,	W	reat.		n and lee.	grains,	food- such as barley, , &c.	1	otal.
	1896,	1897.	1896.	1897.	1896,	1897.	1896,	1897,	1896.	1897,	1896.	1697
1	2	3	4	8	6	7	8	9	10	11	18	5
Foreign Ports.	Owte.	Cwts.	Cwts.	Cwta.	Owte,	Owts.	Cwts.	Cwts.	Cwts.	Owts,	Cwts.	Owt
VII .ss sed mas cos	000 000		111774		400111	*****	*****	*****	******	400.000	464 649	*****
Indian Port.										1		
alcutta	16,527	9,630	8,172	3,664	*****	400000	2,176	261	19000	*****	21,875	18,588
Total	16,527	9,610	3,179	3,064	******	094420	2,176	261	401 gasp	00	21,875	18,580

## 4678 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 8, 1897.

Statement showing the quantities of Food-grains exported from False Point in the Cuttack district to each Foreign and Indian Port during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896.

PORTS TO WHICH EXPORTED.	R	ice.	Pad	dy.	Wh	eat.	Gran			food-	To	tal.
	1896,	1897.	1896,	1897.	1896,	1897.	1896.	1807.	1896.	1897.	1896.	1807
2	2	8	4	6	8	7	8	9	10	11	19	13
Fareign Port.	Owie.	Owts.	Gwta,	Owto.	Cwts.	Owts.	Cwis.	Owts.	Owte.	Owte.	Cwa,	Cwts
Indian Porte,	3,965	13,565	******	******	10-111	******	*****	*****	*****	******	2,865	18,30
Bombay dadras – Cochin	486	8,894		201000	******	******	600000	10-000	404000	*****	434	2,89
Total	3,301	17,459	*24 994	000***	416400	M 4 50	000 coo	******	******	4++000	8,301	17,45

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 8, 1897. 4679

# EXPORTS OF FOOD-GRAINS BY THE EAST INDIAN RAILWAY.

No. 3308 Statistics.—The following statement shows the quantity of rice and other food-grains exported by the East Indian Railway from Calcutta and Howrah during the period from 1st January to 27th November 1897, both days inclusive, to have been 1,03,08,365 maunds. The destination of 1,00,96,662 maunds is specified. Of this quantity 32,87,921 maunds were carried to the North-Western Provinces and Oudh, 44,46,996 maunds to stations in Bengal, 15,49,375 maunds to the Central Provinces, and the rest, 8,12,370 maunds to other provinces. In the last week of the period, 4,713 maunds were exported to the North-Western Provinces and Oudh, and 4,621 maunds to Bihar.

STATISTICAL DEPARTMENT,

The 7th December 1897.

M. PINUCANE,

Secy. to the Gost. of Benpai.

Statement showing the quantities of rice and other food-grains exported from Howe ah and Calcuttu (Chitpur, Kidderpore Docks, and Port Trust Railway) by the East Indian Railway, from 1st January to 27th November 1897.

STATION TO WH CONSIGNED.		Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	August to 25th Septem-	Total from 26th Septem- ber to 80thOcto- ber 1897.	Week ending 6th November 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
1		2	8	4	5	6	7	8	9	10
BENGAL.										
Hooghly.		***		242	363-	Mds.	Mds.	Mds.	M da.	Mds.
** 11		Mds.	Mds.	Mds.	Mds. 339	M (16.	Bu cas.	272 (280	DE CIE.	MA CIS.
Hooghly Tarakeswar	***	2,122					***			***
Chandernagore	• • • •	109			***		000		000	
Dasghora		2	4 0 0	44.	101	•••	***	***	* * *	***
Pandua	001	14		• • •	***	***		***	***	***
Bainchi	000	17 664		• • • •	***	0.00		1.4.	•••	
Bhadreswar	41	001								
.Total		2,928	•••		339			•••		
Burdwan.										4 2
Memari		163				000			• • •	
Rasulpur		4	***				40	2!6	0.00	
Burdwan		1,094	0.070	889	232	102	101	1,546	818	225
Raniganj		9,653	3,972	1,572	2,148	1,168		1,020	010	142
Sitarampur Ghuskara	***	103	***	***		5			***	
Tr T .42		349	***		801		* * *			1
Mankar			99	61			***		* *	
Asansol	•••		***	<b>528</b>	***	22	•••			
Total		11,876	4,071	2,545	2,875	1,297	141	1,762	818	367
Birbhum.										}
25	1	378							> 0 0	
Murarai Bolpur		2	101	1,261	159	199		***	• • •	
Sainthia		ī		108	148			•••	***	
Rampur Håt		683	* * *	4.04	4 4 4	٠.		***		* 4 *
Ahmadpur	•••	802		• • •	• • •		***	***	na come Suppose	***
Total		1,866	101	1,864	802	199	•••		***	
Nadia.										
N. C		7,218	965		400					
Mirpur Chuadanga	***	3,998	3,670	378		0 0 0			***	
Kushtia		17,618	2,841	***	847		***	100		
Alamdanga		5,275	2,202		000		* * *	1.01	0.0 1	+ 6.0
Bhairamara		6,407	1,001 10,244	924	1,978	***	* * *	• • •	***	
Damukdia	***	9,849 8,819	349		1,070	0 0 0				***
Bagula Kumarkhali		3,236	378		382	***	***	***		
Khoksa		1,628	***	•••		• • •		***	***	
Total		58,748	21,650	1,802	2,702			•••	• •	
Jessore.	1									
T		1,014	740	***	***			1,198		
	• • • •	2,478	12,788	•••	• • • • • • • • • • • • • • • • • • • •	•••			121	
Total		3,492	18,528	***	***		***	1,198	•••	
Murchidabad.				Advantage of the latest of the						
		6,277	8,018	1,929	761			•••		
	004	1,980	8,770	1,508	888	122	***	•••		
2.		1,000	747	2,638			***	•••		
		•••	878	877	***	•••	404	•••		
							-	-		
Total		8,207	7,918	6,447	1,144	122	***	400	000	0.0 4

		Total from las	Total	Total	Total	Total from 26tl	Week	Week		Week
STATION TO		January	from lat		August		ending 6th		ending	ending
CORRIGI	ED.	to Suth	to 31st	to 28th	to 25th	ber to	Novem-	Novem-	20th Novem-	DTAL
		June 1897.	1897	1897.	Septem	30th Oct	ber	ber	ber	Novem-
		1007.	1		ber 1897	7. 1897.	1897.	1897.	1897.	ber 1897
1		2	8	4	5	6	7	8	9	10
BENGAI	,									
Rajsha	hi.	Mds.	Mds.	Mds.	M.J.					
Malanchi	•••	1,413	529	Mas.	Mds. 152	M ds 1,095	Mds.	Mds.	Mds.	Mds.
Atrai	***		***	2,088	923	2,347	***	* 0 9	• 0 •	***
Raniuagar Nator	* * *	• • • •	***	1,054	200	***		***	***	100
	• • •			189	•••	***	•••	***	101	
Total	0 0 4	1,418	529	3,326	1,075	3,442				100
Dinajp	ur.		,							,
Dinajpur		373	2,417	343		899			•••	***
Rangpu	r.									
Saidpur		767	829	***						
Kurigram	40.	109			***	,		444	***	***
Lalmonir Hå		55 685	100	• = 1	223		* # #		***	
Kaunia	0,0	373	100	400	228	525		***	• • •	* * 0
Kaliganj	4.0	770	***			400		***	***	***
Mogal Hât		***			120	* * *	***	0	***	***
Total	•••	2,759	929		848	525				100
Cooch Behar		20,763	378	754	304	895	•••	-		***
Jalpaigur	i.		where details of the							
Chilahati					874				***	* * *
Dam-Dim	**	400	100	***		207	***	***	•••	* 0 %
Mandalghat Haldibari	**	8,087	300	390	203	100	101 j	* * *	***	* 0 +
Haldibari Jalpaiguri		25,224	628	339 1,820	403 6,477	7,297	101	***	***	
Ramshai Hât		4,493	376	749	375	4,287	533	***	***	121
Mai Bazar	***	2,809	223	100	101			***	***	***
Belakoba Chalsa Road	Ghat	101	1,511	1,481	2,719				***	0 10
	-					3,828			•••	0.00
Total	0.0.0	36,064	16,586	4,439	10,652	11,971	735	•••		121
Darjeeling	7.									
Sonada		522	2,038	215	102	875	252	1,166	418	267
Siliguri Thoom	***	5,895 2,611	7,067 2,631	1,724 349	3,691	8.493	1,722	1,125	101	
Darjeeling		2,931	4,681	1,914	1,172 2,140	1,858 3,10 <b>5</b>	873 867	766	518	148
urseong		4,498	7,037	750	2,846	3,667	1,015	1,680	480 104	* * *
Rangtang Byabari	401	383	880	200	***	225		152	104	***
lahanadi		•••	880	880 886	***	473	805	101	***	***
	-							101		***
Total	***	16,835	28,837	5,718	9,951	18,696	5,034	5,566	1,621	415
Bogra.			0 0 0 0	0.110	1 000					
kelpur aipur Hât	***		2,855 4,482	2,118	1,268	1,358 2,463	***	***		
amalgani	***	***	2,072	100	408	919	***	123	iii	900
Lili •	0.00		130	4.000						389
ultanpur	***			4,098	1,939	12,991	120	2,218	121	•••
Total			9,539	7,490	4,244	17,731	120	2,341	242	889
Pabna.										
rajganj	***	6,295	•••	760	1,146	845	10 -	***		***
Dacca.				,	2					
unshiganj		41	1,591		***			•••		
acca		880		***		101	•••	***		**
arayanganj	•••	•••	***	•••	181		***	***	•••	• •
	1		1,591		181					

	Total from 1st	Total from 1st	Total from lat		Total from 26th	Week	Week	Week	Week
CONSIGNED.	January to 30th June 1897.	to 31st July 1897.	to 28th August	August to 25th Septem- her 1897.	Septem- ber to 30th Oct, 1897.	6th November 1897.	November 1897.	20th Novem- ber 1897.	November 189
1	2	8	4	5	6	7	8	9	10
BENGAL-									
conold.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	M de.	Mds.	Mds.
Faridpur.									
Pangsa Rajbari	7,257 7,571	1,769	470	882	481	•••	• • •	•••	***
Goalundo	11,414	2,300	2,582	1,814		***		***	
Pachuria	1,374	877	• • •	2,986	***			***	*44
Total	27,616	4,446	8,002	5,182	431	•••	4 6-1		***
Backergunge.									
Jhalokati			•••	2,928	500	**	•••	***	* 4 4
Khulna.	0.00		-						
Phultala Nawapara	860	541	754 200		***	***	100	4.00	140
Khulna	***		200	103	***		***	***	
Total	. 360	541	954	103					
TOTAL OF BENGAL	1.98.470	1,08,056	88,414	42,921	56,053	6,030	10,862	2,176	1,295
CHOTA NAG- PUR.	4								
Hazaribagh.	1								
Giridih	16,434	5,681	1,116	107	402		•••	***	
Manbhum.									
Purulia	2,972 722	8,602	1,466	1,450		}	***	230	101
Bulrampur Barakar	156	1,591	871		***	6.0.0	***	***	***
Pradhan Khanta	2,377	762	2,453	191	***	***	***	***	
Katrasgarh	101	***	100	***	***	***	***	***	
Anara	***	•••	138 126	000	404	•••	***		
Kalubathan			762		400		***	***	
Total	6,328	6,487	5,816	1,641	***			230	101
Singhbhum.									
Chakradharpur	81			**	•••	•••	4.00		001
Total	31	***		• • •			•••		
TOTAL OF CHOTA									
NAGPUR	22,798	12,118	6,432	1,748	402	•••		230	101
BIHAR.									
Bonthal Parganas.									
Barharwa	7,097	6,888	5,368	***	***		***		2.04
Maharajpur Ghat	1,129 3,011	1,890	6,465	•••	***	***	***	* * *	***
Sahibganj	43,325	13,427	11,239	151	***	***	***	***	100
Baidyanath	11,724	8,891	1,478		***	***	***	***	
Madhupur Rajmahal	2,045 1,205	1 919	1,077 2,288	•••	88	•••	410	•••	
Tinpahar	1,200	1,919	2,286	•••	***	***	***		
Kotal Pakour	***		1,527	•••	***	***			
Mihijam	***	000	881		***	***	***	***	
Jamtara	***	•••	381	***	***		•••	•••	
Total	60,586	29,858	82,495						

BIHAR—contd.  Purnea, Kissenganj Katihar Junction		from Jenu to 80 Jun	from 1st Jenuary to 30th June 1897.		st from 1st to 28th August		th	Total from 26 Septem ber to 80th Oc 1897.	th end	Week ending 6th November 1897.		ek ing h m-	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897		
		2	8		4	5		6		7			9	1	10	
		Mdi	79		Mds.	Mds		Mds.	Mo	J	Mds		Mds.	M	ds,	
Manihari			31	6	* * * *	-0.0		141	**		**	.	***	**		
Sonali Kasba		0.00		51	***			141	***		***	1	***	P 0	0	
Other place		87	0.0	40	870	***			***			1	***			
Total			-					***			***			***		
TOTAL		5,66	4,6	19	870	***		141							_	
Bhagalp Nathnagar Colgong		5,33 25,46	6 1.51	1	1,184 1,507	•••	- -	***	•••		941		•••	***		
Pirpainti Ghoga		13,94	0 '	8	762	904		* * *			***		***			
Bhagalpur		00.54		9 1	0.843	1,141		1.501	***		***		***	***		
Sultanganj	* 0		0		880	*,***		1,591	***		***		•••	***		
Raghupur Pertabganj		0.77	4		***	***		***			***		***	***		
Bhaptiahi			2,26	2	***	***		* * *	•••				***			
Total		1.10.000			-		-		***		***					
TOTAL	. **	1,18,060	81,12	2 1	4,126	1,141		1,591	***							
Monghy Bariarpur	g.						1					-		***	-	
Khagaria		0.010		R	,975	* * *			***			-				
Jamalpur	**	1 500	1,12	0 8	,040		1	386 380	***	Ì	***		•••	***		
Lakhisarai Monghyr	* 0	24,529	- 9	B 6	6,626	1,626		1,522	37	Ω	***	1	***			
Garhara		00 148			,149	1,124 492		380	***		***		* 4 4			
Tegra	***	9,825	6,940		,051	982		760	87	9				***		
Jamui Begamsarai	10	4,208		1	,184	***					- 0 +			4.0.4		
Burhi		0.001	8,768	2	,384	975			***		***			***		
Simultola		2,657	162		348	010		***	***		101	1		***		
Nawadi Kajra		871 752	2,250			***		***	***				***	* # 0		
		- 102	2,200	1	,503	•••			***				***	***		
Total		99,752	82,587	85	,828	4,217		8,428	758		101	1-			Description of the last	
Patna.						-	-				101		•••	***		
Masaurhi Khushrupur Barh Patna Bankipore	• • • • • • • • • • • • • • • • • • • •	875 28,700 18,905 1,97,224 8,872	12,553 9,109 88,104 4,920	6, 48, 2,	822 409 290 847	2,881 8,025 83,998 4,975	5:	4,166 3,046 4,570	380 9,541 759	3	376 ,216		462	4,239		
Digha Ghat Badispur	***	49,331	18,339	10,	657	9,596		1,078	1,900		876		380	***		
Bihta	***	3,602	4,211	10,	244	4,566		2,382	950							
Mokameh Dinapur	• • •	28,469	14,484		868	4,664		3,048	879 755		385		822	* # #		
Buktiarpur	***	7,828 5,698	1,128 12,176	15,	880 988	8,394			***							
Fatua	***	8,817	1,896			8,478		1,172 .,902	885		876		1	* * *	-4	
Potal		8,88,068	1,61,920	1,15,8	387 7	5,072			14,099	6,	729	4,6		,239		
Gays.																
Gaya Jahanabad	***	66,381	17,080 5,728	28,7		1,426		,922	5,352	1,	141	••		382		
Bela		2,621 878	0,720		05	8,153	2	,315	***							
Mukdumpur	***	871	***		80	***		374				• •				
Total		69,696	22,803	87,8	11 27	7,579	00					-	-	-		
Shakabad.	- 1						28,	611	5,352	1,1	41	0.04		B62		
Bedadi Raghunathpur Arrah Buxar Dumraon Bihia	•••	8,091 11,840 28,071 27,985 7,910	768 1,508 15,691 18,157 1,510	4,93 16,93 24,63 8,03	33 5 76 23 22 2		3,0 11,9 28,0 8,4		1,908 1,146	2,6		75	6			
Total	-			<b>FO.00</b>			44.0	-	0.404	-			-			
1 OFET		78,847	87,629	50,88	84	,045	44,0	050	B,484	8,0	22	75	6			

STATION TO WHICH CONSIGNED.	Total from 1st January to 80th June 1897.	lat to	to 28th	to 25th	Total rom 26th Septem- ber to 30th Oct. 1897.	Week ending 6th Nov-ember 1897.	Week ending 13th November 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1807
1	2	8	4	5	6	7	8	9	10
BIHAR-concld.	Mds.	Mda.	Mds.	Mds.	Mds.	Mds.	M ds.	M ds.	Mds.
Darbhanga.			0.800	077					1
lakri	5,612	875 370	8,799 378	377				***	
Camaria Samastipur	80,779	12,822	12,511	864	3,387	884	877	887	600
Dalsingh Sarai	89,098	14,717	14,115	1,515 2,671	2,287 1,154	877	879	880	***
Darbhanga	2,25,091 1,857	62,524 3,485	31,141 1,540	2,012	1,103		* * * *	***	
Kamtaul Waini	4,543	1,141	381		***	000		s 19 6	***
Jhanjharpur	1,508	3,389	1,521	764	***	•••	***	***	
Total	3,62,662	98,773	65,386	6,191	6,828	761	756	767	
Total									-
Muzofferpur	FEO	377					***		
Janakpur Road .	759 1,874	757	1,511		***	* * *	• • • •		
Bairagnia	2,495					001		***	
Kanti	1,512	***		• • •	***	***	0.0.1	***	•••
datipur	1,898		374	***	***			***	400
Dholi Muzaffarpur	2,11,741	42,034	29,249	4,169	5,332	764	748		640
Bhagwanpur	6,996	2,263	8,036	376	+ 6 +	400	***		
Sitamarhi		21,033	4,229 12,585	870 4,187	8 052	766		900	***
Hajipur Garaul	22,362 1,499	7,659 1,890	1,889	3,101	0,002			***	***
						1,580	748		
Total	3,10,285	76,018	52,873	9,102	8,884	1,000	1.50		
Champaran.		:	377	000					
Macai	0.004	1 197	350	380			000		
Segowli Jindara	9,694	1,127	***		000	4.0.4			
Jindara Bettiah	1,78,145	22,636	16,418			0.01	***	001	
Bara		6,125	2,273 3,003		***		***	***	
Motihari	56,241 7,051	12,445	377	•••			400	***	07 2
Pipra			011 000				-		
Total	3,58,292	43,440	22,828	880	***				
Saran.	2 000	0.007	7,298	5,348	3,415				
Dighwara	10.775	6,097 9,428	8,688	1,895	8,418	***	***	764	
Ekma Chapra	11.06 700	26,967	25,154	14,456	8,718	4,903	1,519	386	
Goldenganj	373			 m.a.t	4 0 0			***	
Daronda	34,771	9,041	4,887 24,553	764 19,815	8,421	991	879	1,152	
Savan Revelganj	1 11 899	46,099 83,297	26,739	10,272	3,772	4,186	749		
Revelganj	747	***						484	
Sonpur			•••	•••	380	883	001		
Total	4,58,954	1,80,929	97,319	52,550	28,154	9,472	2,647	2,302	
TOTAL OF BIHAR	22,69,31	7 6,69,688	5,25,206	2,10,428	2,00,539	85,406	15,174	8,489	4,62
TOTAL OF PRO.									
VINCES UNDER	1	00.000	5,70,082	O SE COP	2,56,994	41,486	26,036	10,898	6,01
THE LIEUTEN-		07,89,862	5,70,082	2,00,007	2,00,00%	31,200	20,000	20,000	
ANT-GOVERNOR OF BENGAL.	1 1						1		
ASSAM.									
Cachar.	. 847	***			***	•••	***		***
Bealtik	1	1,006			802		***	- 111	
Total	. 847	1,006	***	•••	802	•••	•••		
Nowgong.									
37	- 1	***	880	***	001	***	***		
		-		-		-		-	(1)
Total of Assam	847	1,006	890		802		001	490	

STATION TO WHE	Total from 1st January to 80th June 1897.	to 91	from 1s	Augus	ber t	6th endin 6th Novem	g ending	anding 20th	Week ending 27th Novem ber 1892
1	2	8	4	5	6	7	8	9	10
NORTH-WEST ERN PROVINC AND OUDH.	ES	Mds.	Mds.	Mds.	M ds	Mds.	Mds	Mds.	Mds.
Ouhmer Tari Ghat Ghazipur	25,027 365 20,523	7,593 8,422 757	1,907 1,530 8,047	8,085 1,141 7,976 754	8,04; 1,53; 13,29; 38;	2,301	1,155	•••	***
Total .	45,915	11,772	6,484	12,906	23.259	2,686	1,155		
Benares District							41.00		***
Shirman	. 4,160 8,405	1,897 3,445 27,260	2,657 378  25,360	375 2,657  12,648	351 760 7 896 752 377 37,828	4,951	3,811	1,509	762
Total	. 2,00,828	32,602	28,895	15,680	47,994	4 951	3,811	1,509	762
Gorakhpur District Bhagalpur Gogra. Chauri Chaura Tahsil Deoria Gorakhpur Sahjanwa Bhatpur	8,375 8,753 10,612 7,987 5,340	745 2,288 4,567 4,535	1,131 3,782 3,388	**	•••				
Total	61,177	12,135	8,301		* * a street				
Basti District. Khalilabad Basti Uska Bazar			•••				•••	•••	• • • • • • • • • • • • • • • • • • • •
Total	16,708		•••	F 0 6	100				
Gonda District. Gonda Other places	19,514 9,044	•••	761	48.	7 0 0	***			***
Total	28,558		761						
Baraich District. Nauvara Baraich	1,895 4,894			•=•				•••	***
Total	6,789						***	***	***
Mirsapur District. Ahraura Road Chunar Mirsapur Gainpura	22,327 4,929 84,654 8,045	4,501 1,127 7,960 748	2,667 370 17,418 380	125	755 1,159 7,578 769	390 399 857	000		176
Total	1,14,855	14,336	20,880	893	10,261				100
Allahabad District. Karchana Naini Manwari Jasra Mija Road Nahwai Allahabad Blarwari	7,163 870 2,681 85,884 1,18,409 6,053 1,94,987 22,940	1,514 874 850 2,276 6,834 1,528 0,701	1,147  3,061 5,726 1,919 20,491 778	763	761	3,816	761	374	
hiurajour	15,916 12,433	754	1,555	400	. 9 0		***	***	4.0
Other places	876			104	***	***	***		**
Total	1,17,162 2	4,708 8	4,677	,559 1	1,495	3,816	761	874	

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	September to 80th Oct.	Week ending 6th Novem- ber 1897.	Week onding 18th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th November 189
1	2	8	4	5	6	7	8	9	10
NORTH-WEST- ERN PROVINCES AND OUDH— contd.	Mds.	Mds.	Mds.	Mds.	M ds.	. Mds.	Mds.	Mds.	M da.
Fatchpur Listrict.									
Bahrampur	1,889 4,512	381				***	***	***	
Khaga Bindki	59,519	8,793	2,279	764	•••	0.0	***	***	***
Fatchpur	778	103	1,143			***		***	•••
Total	66,728	4,277	3,422	764					
Campore District.									
Cawnpore City	3,78,602	6,044	15,338	1,515	6,135	886		2,274	1,500
Etawah District.									
Phaphund	10,999					* * *	•••		
Bharthna	766 46,658	1,148	870		881	***	• • •		
Etawah Jasawantnagar	9,451	***		761		***	***	***	***
Total	67,874	1,148	870	761	381	***			***
Farukhabad Dis-									
Fatehgarh	373			••	***				
Farukhabad	758 881	• • •		***	, ***		•••		100
Kanauj								*****	
Total	1,507			***	***	•••		•••	•••
Mainpuri District.									
Kaurara	6,443 6,497	751	***	# D 0	• • •	n m a	***	0 6 4	
<b>60</b> 4 3	12,940	751		•••				•••	
			***						
Agra District.	24,396	877	879	0 840	772	400		877	
Agra Barhan	1,09,626	11,341	5,269	8,898	16,939	8,085	8,808	<b>755</b>	395
Total	1,34,252	11,718	5,648	8,398	17,711	8,085	8,808	1,182	885
Sitapur District.									
Sitapur	12,438	878	***	•••	•••	* * *	000	44.	***
Muttra District.								-	
Kosi	1,564		•••			•••	W.		
Muttra Brindaban	11,371	758	758	882	1,155	1,524 885		441	
Total	18,631	758	758	882	1,155	1,909	***		
Alighur District.									
Harduaganj Sikandra Rao	755 753	****	•••	***	***	***	***	***	000
Hattrass	82,104 19,579	9,427 2,268	1,784 2,667	1,158 1,515	12,285	1,511 761	2,268 1,902	1,508 751	.01
						1.02	_,_,		

STATION TO WHICH	Total from 1st January	Total from let to 81st	Total from 1st to 28th	Total from 29th	Total from 26th Septem-	Week ending 6th	Week ending 18th	Week ending 20th	Week ending 27th
CONSIGNED.	to 80th June 1897.	July 1897.	August 1897.	to 25th Septem- ber 1897.	ber to	November 1897.	Novem- ber 1897	November 1897.	November 189
1	2	8	4	5	8	7	8	9	10
NORTH-WEST- SKN PROVINCES AND OUDH— contd.	Mds.	M ds.	Mds.	Mila.	Mde,	Mas.	Мdв	M de.	Mds.
Bulandshahar Dis- triot.									
Chola	1,504	0.0 +	881		***	4.4.4		000	***
Secundrabad	5,289 <b>3</b> 0,346	***	752 2,264	756 2,661	***	***	879	372 753	875
Dibai	4,918	•••	754					•••	
Total	42,052		4,151	3,417			379	1,125	378
Muzaffarnagar Dis- trict.									
Muzaffarnagar	757	***		# 10 t				•••	
Meerut District.									
Shaziabad Meerut	5,135 42,541	874 1,150	765	383	376	381	767 379	759	384
Total	47,676	1,524	765	383	376	381	1,146	759	884
Banda Dietrict.						•			
Badansa	4,530	4 9	875						
Banda	87,558 11,332	8.502 784	<b>4</b> ,93 <b>4</b> 391	753	1,916	762	374		• • • •
Bargarh Manikpur	7,919	1,142	1,178		• • •	* * *	***	* * *	•••
Kurwi	48,218		1,129			384	***	•••	
Majhgawan									
Total	1,04,928	5,728	8,007	758	1,916	1,146	874		10.0
Moradabad District.									
Khanth			381	***	***	***		4.0.0	000
Moradabad Chundowsi	11,699 21,796	***	901	***		***	***	***	
Total	35,380		881	•••				***	
Asimgarh District									
Shahganj	07.077	1,509	2,675	***	1, 36	***		• • •	•••
Bareilly District.									
Nawabganj	754	• • •	***			• • •	† © 4		
Aonla	7,627		+ 0 +	01.0	1,146	4 -	***	***	***
Bareilly	47,274	2,311	1,520	1,905					•
Total		2,811	- 1,520	1,905	1,146		***	•••	
Jaunpur District.					, , , , , ,	380	756		881
Jaunpur		6,855	5,859	1,531	6,832				
Rhajehanpur Dis- triot,									
Shajehanpur		880	762	***	383	***		***	***
Tilhar	16,026	880	881	***	000	***	***	•••	***
Anjhi Ross Junction	970			***	***			***	
		760	1,148		883		•••	000	

STATION TO WITCH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from lat to 28th August 1897.	August to 25th	Total from 26th Septem- ber to 30th Oct. 1897.	Week ending 6th Novem- ber 1897.	Week ending 18th Novem- ber 1807	Week ending 20th Novem- ber 1897.	Week ending 27th Novem. ber 1807
1	2	8	4	5	6	7	8	9	10
NORTH.WEST. ERN PROVINCES AND OUDH— contd.	Mde.	Mds.	Mds	Mds.	Mds	Mds.	M ds.	Mds.	M ds.
Eta District.	886							1	
Aleswar Road Kashganj	4,146		881	* * *	***			•••	***
Total	4,582		381	***			***		
Luck now District.									
Lucknow Alamnagar Kakori Malih abad	1,02,370 98,257 8,020 754	8.014 758	4,186 705	7,240 8,017	1,916 755	2,284	771	1,138	***
Total	1,44,401	3,872	4,951	10,387	2,671	2,661	771	1,517	***
Pilibhit District.									
Pilibhit	1,516			* * *	***				•••
Saharanpun Dietriot.	873								
Rurki Saharanpur	15,033		* * *	381					***
Total	15,406	***		881	+ 4 5	100		0.0 f	
Fyzabad District.									
Bahwal Radhauli Fyzabad Ajodhya Gosainganj	783 20,772 72,070 10,993 3,788	8.787 874	7,621	1,138	2,662	381	2,813	000	750
Total	1,08,406	4,161	7,621	1,188	2,662	881	2,313		750
Sultanpur District.									
Akbarpur	9,786		***	***	***	***	44+	•••	
Bara Banki District. Pahramghat	7,166	758			ndur . n	***		***	
Duryabad	2,275 14,417	769	4.0+	4 0 9		•••		881	140
Bara Banki Safdarganj	52,935	758	•••		***	883	0.00		
Total	76,798	2,285		***	000	888		881	
Hardai District.									
Balamau	755 21,828	874	881	376	•••		, p # q	***	
Hardaı Baghauli	14,899			***	***			***	***
Sandila	5,667	874	381	974			•••		
Total	42,619		201	376	* * *		### Parks 1 10	•••	
Bijnor District.	6.010							1	
Dhampur	8,692 9,081	1,131	***	***	* 0 0	•••	***	***	000
Najibabad	10,568	709	•••		***	***	***	0.00	•••
Bijnor	2,618	101 							
Total	80,959	1,840		***	•••	•••	•••	***	-
Urao Unao		***	381		00+		•••	***	•••

STATION TO WHICH JONESGNED.	Total from 1st January to 80th June 1897.	Total from lat to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 80th Oct. 1897.	Week ending 6th Novem- ber 1897	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
1	2	8	4	5	G	7	8	9	10
NORTH-WEST- ERN PROVINCES AND OUDH— concld.	Mds.	Mds,	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Jhanei District. Jhanei	6,425	1,582	875	383	1,919	1,140		P & 0	
Lolitpur District,	4,506	756	381					•••	•••
Kheri District.									
Lakshmipur	8,389								
Hamirpur District.									
Mahoba	16,262	1,898	2,262	1,145	1,543	379	880		
Dehra Dun District.									
Hardwar	878	***	800		٠,			1 + 0	9 6 6
Jalaun District.									
Ait Kalpi	1,117	• • •	• • •	***				0.00	***
Total	2,990							***	141
Garhwal District.	-								
Haldwani	2,261								
Other places	72,531	1,898	4,579	865					
TOTAL OF THE NORTH-WEST-	26,53,270	1 69,550	1,75,248	70,690	1,56,174	27,132	19,824	11,325	4,718
PANJAB.  Amritaur District			a septembra - Ma						
Amritaur	740	444		382				1.44	***
Delhi District.									
	2,31,976	11,885	14,105	24,694	14,123	4,241	8,383	5,820	3,095
Jullunder District.						- 00000 000 0			
Jullandur City	8		• 0 •	886					
Umpalla District.					*	-			
Umballa City	17,863	140							1 9 0
Gurgaon District.									
Pankanan	378		***	0.0 .	*4 *	w 10 ft	•••		***
Gurgaon	1,890 64,441	1,133	8,778	2,240	4,852		828	788	775
7F-4-3	66,709		3,778	2,245)	4,352		828	788	775
•		1,188						-	
Rawalpindi District. Rawalpindi	000	•••	1,873	1,125				2.004	
Other places	96,050	1,901	18,782	1,549	5,744		1,136	2,664	•••
TOTAL OF THE PANJAB.	4,18,821	14,509	83,583	<b>80,8</b> 85	24,219	4,241	10,847	8,772	8,870

STATION TO WHIC CONSIGNED.	Total from 1st January to 30th June 1897.	LOHI THE	to 28th	to 25th	Septem-	Week ending 6th Novem- ber 1897	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Noveman
1	2	3	4	5	6	7	8	9	10
CENTRAL PROVINCES.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	M da.
	20,160	6,077	5,691	2,284	381 6,143		***	***	* 6 *
Katni .	66,879		8,014 22,370	3,411 3,788	7,674	769	384	3,093	***
Jubbalpur	41.576		2,649	1,141	0.0.2				
Peparia . Kareli .	97.946	9,146	3,829	1,908	781	376	4,974	5,775	1,137
Nagpur .	75,979		33,461 1,19,291	10,329 42,248	11,671 $39,834$	1,588	8,086	7,070	1,143
Other places .	5,80,70	1,16,171					0	15.000	0.0(0
20	10,20,74	1,72,428	1,95,317	65,109	66,484	2,683	8,891	15,938	2,280
RAJPUTANA AND CENTRA INDIA.									
Dholpur .	1,12		381	379					**
223	1,06,40		14,810	2,640	1,148	770		874	379
	2,83	8		***		760	***		0.4
00 mm d	5,71	3 377	100	880		760	***		
	1,50		* * *	**					
	3,01		***		4 0 4	***		0 0 0	
W. 9. 1	4,80	7 880			378		551		***
Other places	18,71				1,526	1,530	551	374	
	1,45,63		17,000						
Hyderabad BERAK.	1,15	6				-		-	
Badnera	35			402	1,145		379	***	
Dhamangaon	2,93			382 379	***				
4	43		763					Bee	
Khamgaon Akola	3,78		3,778	2,678					
4 *	15,25	3,824	8,378		3,413	765	753	370	
Shegaon									
Total	25,15	7,250	12,919	16,198	6,529	1,540	1,882	_	
Bombay	37	-	1,148	-	1.000		450	367	289
Unspecified place	A party of the second second								
GRAND TOTAL ABSTRACT.	68,62,80	5 11,75,945	2 10,08,918	4,45,188	5,13,467	78,93	7 67,493		
Total of Bengal ,, Bihar ,, Chota N	1,98,47 22,69,3 22,79	6,69,68	8, 5,25,200	2,10,42	2,00,58	85,40	8 15,174	2,170 8,488 230	4,621
pur. Total of Assam	8	1,06	886	0	802		* * *	•••	. 0
Total of the Nort Western Pr	0. 26,53,2	70, 1,69,55	0 1,75,24	70,62	1,56,174	27,18	2 19,824		
vinces and Oud Total of the Pan Total of Rajputa	ab 4,13,3 na 1,45,6							37	4 871
and Central In Total of Cent Provinces.	ral 10,20,7	1,72,42	8 1,95,31	65,10	66,48	2,68	8,394		
Total of Hyderab Total of Berar	ad 1.1: 25,1:		0 12,91		8 6,52	1,54			4
Total of Bombay Total of Unspeci	3	74	1,14	3	7 1,23	9 37		86	0.08
places.  Add exports from to 80th Janu	lst	00		***	***	• • •		•••	. 0.
1897, the det	ails						850		
	ALVV I	1				~ 2 4	200		
evailable.					(M. 1)	0.00			5 17,49

# EXPORTS OF FOOD-GRAINS BY THE EASTERN BENGAL STATE BAILWAY.

No. 8307 Statistics — The following statement shows the quantity of rice and other food-grains exported by the Eastern Bengal State Railway from Sealdah and Calcutta during the period from 1st January to 20th November 1897, both days inclusive, to have been 13,40,831 maunds. The destination of 13,36,549 maunds is specified. Of this quantity, 10,46,814 maunds were carried to stations in Bengal Proper, and 94,438 maunds to Bihar and Chota Nagpur, 45,911 maunds to the North-Western Provinces and Oudh, 1,41,453 maunds to Assam, and the rest (7,933 maunds) to other provinces.

STATISTICAL DEPARTMENT,

M. FINUCANE,

The 7th December 1897. Secretary to the Gort. of Bengal.

Statement showing the quantities of rice and other food-grains exported from Sealdah and Calcutta (Port Trust Railway, Chitpur and Kidderpore Docks), by the Eastern Bengal State Railway, from 1st January to 20th November 1897.

STATION TO W		Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897
1		2	3	4	5	6	7	8	9
BENGA 24-Parga		Mdr.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Barrackpore		1,071	374	***					] *** UB,
Shamnagar	100	5				***	***	***	***
Kankinara		302				1			1
Naihati Kanchrapara		149	182	* * *	20	***	***		***
Buttapukur		34 84	2-2	4	2		•••	***	***
Gobardanga		1,191	359	190	0.50	16		0.00	***
Akra Junction		9			252	613		141	110
Muslandpur		9	4	6		9		• •	104
Mugra Hat	* 0	4			***		* * *	***	***
Guma Budga Budga	• • •	60		***			• • •		* * 1
Budge-Budge Dogachhia	1 0	8 8	***	* # 4				***	* 6 0
Habra	***		• • •	10	***			100	* * *
Baruipur		440		12	5		***	* * *	
				***	U	* * *	***		***
Total	***	2,934	943	212	279	639	•••	141	+4+
Chakdaha Ranaghat		97	101	142	* 0 0	4	18		
Aranghata		785 45	131	81	6	249	5	• • •	0 0 0
Bagula		17,323	3,058	4	1.00	0 0 1	***		•
Kishanganj	***	3,781	1,711	971	17 302	***		4	***
Banpur		608	148	126		6		***	
Ramnagar		2,874	729	568	109	9	10	***	144
Jairampur Chuadanga	•••	2,325	1,072	560	168			8	
Munshiganj	* *	17,306 6,447	5,264	1,117	500	165	30	4	31
Alamdanga		35,668	1,509 11,839	69	9	12			
Halsa	* * *	2,339	483	2,523	1× 503	50		8	11
Poradaha		2,340	245	15		193	11	***	***
Jagati		2,8//3	905	21	13	***	5	2	111
Kushtia Kumarkbali	,	47.273	19,967	1,582	3,368	1,198	120	312	2
Koksa	* * *	20,440 6,567	18,740	774	2,504	2,496	25		385 20
Mirpur	* *	20,759	3,583 2,519	6 :7	234	643		26	20
Bhairamara	**	29,622	2,962	148	15	61	• • •	***	***
Damukdia		7,107	13,189	3,425	908	168	***	***	
Gangnapur		32	20	61	000	247	21	***	76
Madanpur Sibnibash		9	88	***	28	• • •	6	30	***
PIONIONSU	* *		***		***	39		•••	48
Total Jessure.	• • •	2,26,600	88,192	12,838	8,402	5,540	257	396	577
Chandpara		150	18	15	-	-			
Bangaon		1,667	213	268	358	554	***	***	***
opalnagar		521	69	129	240	235	21	30	36
Benapol Nabharan	•••	296	268	69	26	44		4	44
hikargacha	***	7,048	227	129	40	36	***	19	***
088010	***	6,649	1,685	1,004	812	£02	36	19	86
Rupdia		58	3,482 59	1,017	418	254	60	42	67
lingia		16,316	7,275	3 40	8	***	1	4	***
Varal	001	258	1,010	40	55	76	277	32	5
Binodpur	000	1,056	110	***	•••	0 10	***	***	4 a 6 <sup>rd</sup>
lohatta ther places	***	328	77	2	•••	4	***	***	000
and busces		2,529	250	***	4	10	***	4	
Total		37,510	13,733	0.084					-
		0,010	10,100	2,676	1,461	1,715	397	154	238

STATION TO WHI CONSIGNED.	СН	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total of from 29th August to 25th September 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897	Week ending 13th Novem- ber 1897	Week ending 20th Novem- ber 1897.
1		2	3	4	5	6	?	8	9
RENGAL-con	td.								
Khulna.		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Fakir Håt Nawapara Phultala Daulatpur Khulna Bagir Håt Bhutpara	000	1,535 346 148 3,526 15	876 119 20 5,343 18	20 51 180 30 419	10 26 75 485	6 118 44 22 125	29		6 20
Total		5,578	6,376	700	546	315	29	10	26
Rujshahi.									
Malauchi Gopalpur Nator Attrai Raniuagar Alipur Rampur Boalia Sara Charghat Madhanagar		1,503 73 498 37 108 14,912 1,348 493	2,126 260 1,873 982 304 3,108 8,594 301 448	1,294 4,434 185 1,862 4	542 2,363 1,380 40	931 2,055  170 141	10		2 4
Total		18,972	12,996	7,879	4,328	3,667	10		6
Dinajpur.									
Parbatipur Kaugaon Charkai Phulbari Raiganj Dinajpur Kahaganj	000	6 192 82 1 1,007 	358 883 24 232  3,778 140 5,415	400 32 97 2,787	124	68 20 772	2	88	20
	***	1,200	0,410	3,266	124	860	2	88	22
Jalpaiguri. Belakoba Dam-Dim Chilahati Haldibari Jalpaiguri Ramshai Håt Chalsa Road Ghåt Malbazar Deomoni Mandal Ghåt  Total Darjeeling. Siliguri Kurseong Sonada		632 171 70 24,726 25,961 9,716 1,220 1,981 103 713 65,293 5.857 4,097 1,056	150 300 7,041 13,032 5 165  520 21,213 887 14	332 3,081 2,609 400 203  6,625	1,069 14,029 5,580 378 1,401  235 22,692 1,644 412 410	389 780 18,081 4,814 40 246 220 990 25,560 1,227 5 1,040	148  100 248 210	284	36
Ghum Darjeeling Mahanadi Tindaria	•••	4,465	1,175 1,386	713 1,074	651 552 1	1,647 1,680	20	164	
Rangtang	***		100	***		130	•••	•••	***
Total	•••	18,659	8,462	1,834	8,770	5,729	880	193	15

STATION TO WHICE CONSIGNED.	ZEL	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem ber 1897.
1		2	3	4	5	6	7	8	9
BENGAL-cont	d								
Rangpur,		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Daroani		1.007	237	805 634	100 803	739	85	70	8
Rangpur		1,337 234	1,458	12	277	54	20		***
Kaunia	•••	24	***	38	20	18			***
Badarganj Baidpur	• • • •	1,495	2,378	1,450	658	633	***	52	4
Nilphamari		236	505	868	663	745	14	126	
Domar		8,097	5,191	1,359	7,691	15,197	1,536	103	
Cista		392	***	6	***		* * *	***	
Lalmonir Ilât	• • •	453 200	0 0 0	356	56	62	***		* * 4
Magal Håt Kunigram	***	964	55	127	449	112	2	8	9
Jatrapur		426	34	26	130	69	***	•••	***
Porabari		680	29	81	520	193	***	4	800
Madarganj		4	***	20	91	2,595	6.4		101
Kamarjani	•••	1,388	36 70	35 20	242 85	128 42	64	000	4 % 8
Chilmari		248 133		21	26	90	34	***	7
Rowmari	***	100			5			• • •	
Shampur	4 + 4								
Total		16,411	9,988	5,358	11,816	20,677	1,755	363	20
Bogra.			100	150	000				
Panchbibi	• • •	1.0	100	150 583	200 994	1,871		0.00	
Jaipur Hât		16 1,859	1,49 <b>3</b> 229	416	882	828	8	140	
Samerbari Sultanpur	144	170	953	4,148	2,769	5,375	20	294	3
Akkelpur		390	1,117	1,665	501	1,810	•••	20	
Hili	. 1	105	987	835	213	204	16	40	
Jamalganj		507	1,274	722	120	430	671	***	
Tilakpur		* * *	108	***	37	90		20	***
Nakhila	900		***	•••	01		•••	20	
Total Pabna.		3,047	6,261	8,019	5,716	10,603	715	514	5
Nagarbari		1,263	201	300	801	170		000	***
Banagram		85	* * *	***	***	900	***		
Belkuchi	10.4	3,996	1,154	192	2,219	1,024	10	20	
Berajganj	0.0.0	11,476	2,477	3,771	10,840	934	46		***
Pabna	100	4		5	8	88	***	***	**
Sthalchar Be <b>ra</b>	000	000	0 0 0	12	18				
	8 0 0							-	
Total Cooch Behar.	•••	16,824	3,832	4,280	13,886	2,166	56	46	
Chaurh Hât	•••	1,476	* * *	360	183	601	101	78	
Torsa Other places		917	• • • •						
•	***			360	183	768	101		
Total Dacca.		30,499	***	000	100	700	101		
Dorogram	111				17	1	•••		
Elashin		6	9	16	218	541	•••	***	
Narayanganj		1,436	104	520		140	100	62	
Dacca		533	69	136	466	180	16		101
Kadirpur		22	28 29	327	253 302		***	***	
Tarpasa Kamalaghat	***	815	38	***		49'3		000	
Bahar	001	13		•••	387				
Moynal	801	12	2	•••		1		***	0.00
Postagola	1	513	900	000	000	***	***		***
Manikuagar		2		***	2				***
Aricha		445	12	***	000	31	900	1	
Sabhar	* * *	•••	• • •	•••	296				
Elachipur Bishnandi			000	•••	20				***
To 180 Tranci	•••	7,00		•••	-				-
		3,365	291	999	6,392	1,087	320	68	

STATION TO W	VH10H	Janual-y		Irom lat	Total from 29t August	Total from 26th Septem-		Week	ending
CONSIGNE	D.	to 26th June 1897.	to 31st July 1897.	to 28th August 1897.	1 4. 00-12	ber to 30th	6th November 1897.	13th November 1897	Novem born
1		2	8	4	5	6	7	8	9
BENGAL-e		Mds.	Mds.	363					1
Gafargaon		. 16		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Mymensingh Bhairab Bazar		4.3	14	144	243 76	354		20	
Bahadurabad		254	20	***	94	204	52	59	***
Hargilachar Jagannathgani	0.0	1 100	121 25	22 63	32	40	***	20	•••
Subarnakhali		O FEO	264	102	165 171	924 73	2	46	
Sadhuganj	• •		•••	•••	2	***	•••	***	08
Total	• • •	5,043	444	331	783	1,636	54	145	30
Faridpur Doomasa					127	100			
Daulatdia Lallgolla	•••	11,346		***		126		***	• • •
Pangsa		4,469 34,805	2,730 12,914	1,275	6,776 1,829	4,413	60	44	301
Belgachi	***	8,279	300	103	424	589 118	6	41	100
Rajbari Pachuria		13,341 19,465	1,124 8,746	495 6,355	327	406		***	100
Goalundo		19,895	4,304	2,818	$6,531 \\ 6,353$	868 3,338		100	
Faridpur Madaripur		21		2	19	26	600	1.0	***
Haserkandi		6 4		• • •	5	***		14.	* * *
Nuria		• • •	30	456	20 856	130	** `	•••	* * *
Kartikpur Jobsa		61		14	558	43		2	***
	* * *		***		86	3		• • •	• • •
Total Backergunge.	***	1,11,692		12,502	22,911	10,060	673	187	301
Pirozpur Jhalakati		920	5	1 000	0.5.10	4		• • •	110
Barisal		249	•••	1,232	2,147	20	20	40	* * 9
Total Tippera.		1,169	5	1,272	2,167	44	20	40	
Azabpur			• • •	•••	1	2			
Haziganj Comilla		20	***	•••	120	20	***		***
Chandpur		130	1	240	132		•••		
Akhaura		7	8	18	203	97	10 0	4	000
Nayanpur Brahmanbaria		***	• • •	444	9		***		***
				•••	3	4 4 4	•••	•••	***
Total Noakhala.	404	165	9	258	477	125	•••	4	
Noakhali Feni		471		•••	1				20
	***		•••	***	3	- 4 0	***	•••	• • •
Total Chittagong.		471	•••	•••	4	•••			20
Chittagong Burdwan.	•••	54	284	345	613	226	4(1)	60	168
Sitarampur Rasulpur	•••	***	***	412	•••				•••
Runiganj	***	428		•••		1		• • •	***
Total		431		412				d	•••
Bolour Birbhum.									-
Saiuthia	***	2	•••	0.0				* * *	
Total		7		44.4					
				• • •	***	•••	••	***	***

STATION TO WHICH CONSIGNED.	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	ber to 30th	Week ending 6th Novem- ber 1897	Week ending 13th Novem- ber 1897.	Week ending 20th Novem ber 1897.
1	2	3	4	5	6	7	8	9
BENGAL-concid.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.
Murshidabad. A simganj Jiaganj	312 20	375	000	***		0.00		••6
Total	332	375		111		***		•••
. Total of Bengal	5,66,344	2,03,967	70,166	1,06,550	91,417	5,059	2,766	1,839
CHOTA NAGPUR.  Hazaribagh.  Giridih	390	740		400	•••			100
Manbhum. Purulia Chandil Katrasgarh Pradhan Khanta	937 10 16	740	927	360	0 0 0			***
m 4.3		***	740	0.00				•••
Total	963	740	1,667	360	• • •	***		
Singhbhum. Ohakradharpur	20	000		• • •	0 0 0	• • •		
Total of Chota Nagpur	1,373	1,480	1,667	360		•••		
BIHAR. Sonthal Parganas. Deoghur Pakur Rajmahal Total	370 6 	794	•••	000		000	000	• • • • • • • • • • • • • • • • • • •
Bhagalpur. Colgong Bhagalpur	384 870	4,100		0 0 0	***	•••	***	
Total	754	4,100	•••	***			100	
Monghyr  Monghyr  Barowni  Khagaria  Burhi  Kajra  Jamalpur	370 10 742 	370 1,496 1,876 370	370 376 1,516 875	000	000	600	000	
Garhara	***	751	751	***		***	•••	• • •
Total	1,283	4,863	3,358	•••	***	•••	001	204
Patna. Barh Patna Diga Ghat Rakhtiarpur Mokameh Khusrupur Bankipur Dinapur	1,050 740 377 745	753 8,988 386 771 3,776 2,655 876 371	1,128 2,828 382 2,627 375 751	1,110  100  370	370	000	000	011
Bihta		***	•••	370	***	000	***	199
Total	2,912	18,075	8,091	1,850	740	•••	.00	

		1	7		1				
STATION TO W		Total from las January to 26th June	Total from 27th June to 31st July	to 28th	Total from 29th August to 25th Septem-	Total from 26th Septem- ber to 30th	Week ending 6th Novem-	Week ending 13th Novem-	Week ending 20th Novem
		1897.	1897.	1897.	ber 1897.	October 1897.	ber 1897.		ber 1897.
1		2	3	4	5	6	7	8	9
BIHAR—con	eld.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds.	M ds.
Barsoi		***		370	•••	***			***
Sonali Kishanganj	***	720	1,466	0 0 0	•••	***	***	•••	• • •
Kasba	•••			200	***	***	***	10	
Total		721	1,466	570					***
Darbhanga		-				•••	***	10	***
Samastipur Kamtaul	900	895 370	3,004	1,499	4 0 0		***	***	
Dalsingh Sarai	***	0,0	3,755	2,632	• • •	***	*10	* * *	* * *
					100		***	***	
Total Shahabad.		1,265	6,759	4,131	***	***	•••	•••	* * 1
Buxar		***	•••	• • •	1,852	***	***		
Arrah		0.870	1,120	385	***		•••	***	***
Raghunathpur Behea	***	370	•••	370	***		***	***	4 0 4
Dumraon			•••	•••	370	***	***		***
Total		370	1,120	755	2,222				
Gaya.	***		1,120	700	2,522	***	***	***	***
laya	•••	370	***	11			* * *	***	
Musaffarpur. Hajipur		740	•••		-				
Sitamarhi		370	4	000	• • •	* 0 0	•••	•••	***
Muzaffarpur	***	2,628	2,281	380	***	***		• • •	***
Bhagwanpur Baraul	4 0 0	***	375 376	375	100	* * *	• • •		* * *
	-			-				•••	141
Total Champaran. Bettiah	1	3,738	3,032	755		•••	***	***	***
Saran.	001	370	***	•••	•••	•••	***		144
Ekma		740	• • •						
Revelganj Chapra	0.00	1,870	1,857	***			• • •		***
ра <b>л</b> ап Эдерга	111	1,537 2,960	380 1,480	740		100	• • •	***	400
Daronda		370	1,505	***		• • •	***	***	***
Digwara	***	•••	758	•••	• • •	• • •	• • •		•••
Total	***	7,477	5,980	1,110	•••			•••	1
Total of B		19,636	46,189	18,811	4,172	740	•••	10	** .
TERN PROVI	N-								100
Ghasipur. Dildarnagar		i	1,121	-			i		•••
hazipur		5	1,161	•••			• • •	• • •	
arighat	40	•••	370	• • •	• • •	***	•••	• • •	***
Total Benares.		5	1,491	• • •	•••	100	•••	•••	•••
Benares		370					• • •		
amania	•••		•••	•••	***	1,115	•••	•••	• • •
Total Gorakhpur.		370		•••		1,115	•••	•••	•••
auri Bazar	•••	370		• • •					• • •
hauri Chaura torakhpur	• •	370	***	240		***	•••	•••	•••
	***		0.0.0	740	• • •	***	***		• • •
-warnhar									

NORTH-WESTERN PROVICES AND OUDH—contd.  Mirsapur.  Mirsapur  Allahabad. Naini Junction Mija Road Allahabad  Total  Fattehpur.	S-N-	Total from 1st January to 26th June 1897.  2  Mds.  385  4,000  4,755	Total from 27th June to 31st July 1:97.	Total from 1st to 28th August 1897.	Total from 29th August to 25th September 1897.	Total from 26th September to 80th October 1897.	Week ending 6th November 1897.	Week ending 13th November 1897.	Week ending 20th Novem ber 1897.
NORTH-WESTERN PROVICES AND OUDH—contd.  Mirsapur.  Mirsapur  Allahabad.  Naini Junction  Mija Road  Allahabad  Total  Fattehpur.	N-	385 370 385 4,000	Mds.	Mds.	Mds.				
TERN PROVICES AND OUDH—contd.  Mirsapur.  Mirsapur  Allahabad.  Naini Junction  Mija Road  Allahabad  Total  Fattehpur.	N-	385 370 385 4,000	• • •	000		Mds.	Mds.	Mds.	Mds.
Allahabad. Naini Junction Mija Road Allahabad  Total  Fattehpur.	•••	370 385 4,000	•••		•••				
Naini Junction Mija Road Allahabad  Total  Fattehpur.	***	385 4,000	•••			0.00		•••	
Total  Fattshpur.	•••			•••	***	• • •			***
Fattehpur.	• 5	3,000			***	•••		•	***
Bindki			***		***	•••			***
		385	***	***	900	•••	•••	•••	•••
Cawnpur.	•••	7,965	• • •	0.00		381	•••		***
Etawah.		2,383	0 0 0		***		• • •		111
Mainpuri. Shakohabad	***	375	•••	994	***	• • •	***		•••
Agra. Firozabad	001	767	•••	•••					***
Muttra.	•••	379		•••	•••	***			400
Alighur. Hattrass Alighur	•••	3,832 375	1,144	879	***	***	•••	•••	201
Total		4,207	1,144	379				***	
Meerul.	ŀ				•••				***
Meerut		758	•••	384	•••	•••	•••	•••	4 + 4
	•••	385	•••	0 0 4	•••	***	•••	•••	
Aonla	•••	379 1,143	•••	040	81	•••	• • •	***	0 = 0
Total		1,526							•••
Jaunpur.	-			***	81	•••	***	***	***
Talalanai		8	8	***	•••	***	***	•••	
		14	8	•••				-	100
Shahjehanpur.	1	-						-	
l'ilhar .		1,132 1,899 385	000	000	• • •	•••	•••	•••	010
Total .	100	8,416	-		•••	•••	400		

		1		e e		A		
STATION TO WHICH CONSIGNED.	Total from 1st January to 26th June 1897.	Foin 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	6th Novem-	Week ending 20th Novem- ber 1897.	Week ending 20th Novem ber 1897
1	2	3	4	5	6	7	8	9
NORTH-WES- TERN PROVIN- CES AND OUDH—concld. Lucknow.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Lucknow Alamnagar	1,901 3,401	374		***	***	9 0 0		***
Total	5,302	374	* * *	• • •	***	•••		•••
Bulandshahar. Khurja	750			***		0.00	***	6 6 6 <sup>4,00</sup>
Fyzabad. Fyzabad Gosainganj	905	0 0 0	000	000	0.0		• • •	000
Total	1,206		.,	***	• • •			•••
Hardai. Hardai Baghauli	P7 4 k3		***	90			000	•••
Total	1,121	•••		100	• • •	***	***	•••
Other places	2,255	• • •	370	•••	***	***		0.00
Total of the North- Western Provin- ces.		3,012	1,873	81	1,496	***	•••	***
Panjab	1,516	•••	370	1,110	1,110	• • •	***	***
Central Provinces	456	1	•••	2,986	• • •		•••	-80
Rajputana and Centre	384	•••	•••	•••	***	•••		•••
ASSAM. Sylhet. Fenchugunge Sylhet Badarpur Balaganj Karimganj Chattak	1,294 6,237 5,052 890		2	425	590  146 2	1,080		40
Other places	090		327	•••	237	• • •	***	***
Total	. 14,463	2,099	329	796	975	1,082		40
Cachar. Silohar		5,922	261	1,348	4,220	349	56 93	40
Total	13,847	5,922	261	1,348	4,220	349	149	40
Goalpara. Dhubri Goalpara	1 040		330 366		464 1,968		160 130	8 140
Total	2,848	431	696	8,016	2,432	88	290	148

			9	- 3-				
Swation to which consigned,	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week Ending 6th Novem- ber 1×97	Week ending 13th Novem ber 1897	Week ending 20th Novem- ber 1897.
1	2	3	4	5	6	7	8	9
ASSAM - concld.  Kamrup.	Mds.	Mde.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Darrang. Tejpur Mangaldai Bishunath	257 18 51	111 160	152	411	259 56	3	••• 4	***
Behalimukh	***	271	152	410 822	315	3	4	•••
Sibsagar.  Nigriting Disangmukh Dekhumukh Kokilamukh Other places	1,826 1,676 3,986 557 1,576	437 609 372 701	190 697 103 10	13 357 665 	129 223 630 286 142	40 20 82 60	20 93 97 2	72 25 130
Total	9,621	2,119	1,000	1,009	1,410	202	212	227
Lakhimpur. Dibrugarh Palasbari	14,366	875 20	1,887	4,020 103	3,966	1,650	1,500	1,820
Total	14,368	895	1,887	4,123	3,972	1,650	1,500	1,820
Nouegong.	558	• • •	***	61	507		***	0 0 0
Other places	115	26	400		112	24	•••	
Total of Assam .	56,819	15,021	7,601	24,432	20,656	6,311	5,121	4,195
Unspecified places	3,843	115	16	143	160	•••	5	
	6,89,820	2,69,785	1,00,504	1,39,834	1,15,579	11,370	7,902	6,637
ABSTRACT.  Total of Bengal  Ditto Bihar  Ditto Chota Nag-	19,636	2,03,931 46,189 1,480	70,166 18,811 1,667	4,172	91,417		2,766 10	1,839
Ditto North-Wes- tern Pro- vinces and Oudh.		3,012	1,873	81	1,496	•••		***
Ditto Panjab Ditto Central Provinces.			870	1,110 2,986	1,110	•••		
Ditto Rajputana and Centra India.	384	•••	•••	***	***	•••	000	***
Assam Unspecified places		15,057 115	7,601 16		20,656 100		5,121	4,198
GRAND TOTAL	6,89,820	2,69,785	1,00,504	1,39,834	1,15,579	11,370	7,902	6,037

## WEATHER AND OROP REPORT.

For the week ending the 6th December 1897.

Burdwan. No rain. Weather seasonable. Harvesting of aman paddy continues Prospects excellent. Condition of cattle good. Fodder and water sufficient. Common rice

Sadar			Srs. Srs.
Kalpa	***	0.00	9½ to 13
Katwa	***	***	9 to 14
Raniganj	***	•••	10 to 13 per rupes.
	***		11 to 13

Birbhum.—No rain. Weather seasonable. Harvesting of aman commenced. Standing crops doing well. Fodder sufficient. Prices are :-

> Old rice New rice. Srs. Sadar ... 11.4 12.12 Rampur Hat 14.8 per rupee. . . . ... 11.8

Bankura.—No rain. Weather seasonable. Harvesting of winter rice going on. Rabi

crops thriving. No cattle-disease. Fodder and water sufficient. Common rice 15 seers per rupee at Bankura and Vishnupur.

Midnapore.—Rainfall nil. Prospects of sugarcane, indigo and rabi crops good. Paddy is being reaped. Cattle-disease reported from Salpani police-station. Prices of common

Sadar 12 Tamluk per rupee. 10

Hooghly.—No rain. Winter rice is being reaped. No cattle-disease. Common rice sells from 8 to 12 seers per rupee.

Howrah.—Rainfull nil. Weather seasonable. Condition of rabi fair. Harvesting of aman centinues; outturn good. Fodder and water sufficient. Common rice sells at 9 to

24-Parganas.—Rainfall nil. Weather seasonable. Prospects good and hopeful. Ploughing still continues for rabi crops and harvesting of winter rice going on. No cattle-disease. Fodder and water sufficient. Common rice sells as follows:—

Srs. Sadar 9 to 12 Barasat ... 12 ... Basirhat per rupes. ... 101 Diamond Harbour ... 13

Nadia.—No rain. Aman being harvested. Rabi crops growing well. Common rice (new) selling at 10 to 13 seers per rupes and (old) at 8 to 91 seers. Fodder and water sufficient

Murshidabad.—No rain. Weather seasonable. Harvesting of aman going on. Sowing of rabi finished. Prospects of kalai, sugarcane, and mulberry favourable. Fodder sufficient. No cattle-disease reported. Common rice sells as follows:—

Srs. Sadar 11 Jangipur 15 0.00 ... per rupee. 18 ...

Jessore.—No rain. Weather cool and clear. Prospects of rabi crops favourable. Harvesting of aman going on. No cattle-disease reported. Fodder and water sufficient. Common rice sells as follows:—

Srs. Jessore 10 to 13 ... Jhenida. ... ... . . . 11 Magura 11 to 12 0.00 ... ... per rupee. Narail 13-5; oh. ... ... Bangaon ... ... ... 13

Khulna. - Rainfall nil. Weather seasonable. Cultivation of rabi crops going on. Harvesting of aman commenced. Prospects excellent. Water and fodder available. mon rice sells as follows :-

					Brs.	
Sadar Bagirhat	0.0 0			10	to 14	)
Bagirhat Satkhira	•••		0.04	***	10	per rupes.
Batkhira	8-96	***		•••	16	per rupes.

Rajshahi.—No rain. Weather seasonable Prospects of crops excellent. Harvesting of winter paddy continues. No cattle-disease reported. Fodder and water ample. Common rice sells from S to 141 seers per rupes.

Dinajpur.—Rainfall nil. Weather cold. Harvesting of winter rice commenced. Sowing of rabi nearly finished. No cattle-disease. Fodder and water sufficient. Price of common rice 14 seers per rupee.

Jalpaiguri.—Rainfall nil. Weather getting cooler. Outting of haimanti paddy commenced. Potato and mustard are still being sown. Transplantation of tobacco going on. Fodder and water sufficient. Common rice sells at 9 to 10 seers per rupee.

Darjeeling.—Rainfall nil. Hills.—Wheat, barley, phaphur, kalai, bhutma, mustard seed and potatoes are promising well. Terai—haimanti dhan ripening and being reaped; mustard and potatoes doing well. Coarse rice sells as follows:—

Srs.

Hills ... 6 to 9 per rupes.

Bhu!!a sells from 16 to 28 seers per rupee.

Rangpur.—No rain. Harvesting of aman going on. Prospects good. Common rice selling at 9 to 12 seers per rupee. Fodder and water sufficient, except at Kurigram, where they are reported as getting searce.

Bogra.—Rainfall nil. Prospects of winter rice continue good. Pulses and oilseeds doing well. Fodder and water ample. Price of common rice (new aman) varies from 11½ to 15¾ seers per rupee.

Pabna.—No rain. Weather fine and cool. Prospects of crops excellent. Price of common rice 91 seers at Sirajganj and from 91 to 10 seers per rupes at Sadar. Fodder scarce at Sirajganj. No cattle-disease.

Dacca.—Rainfall nil. Weather seasonable. Prospects of standing crops excellent. Fodder available. Cattle-disease prevalent in the interior of the Sadar subdivision as well as in the town. Common rice 12 seers per rupee.

Mymensingh. - Rainfall nil. Weather seasonable. Prospects of standing crops good. Common rice 8 to 13 seers per rupee.

Faridpur.—No rain. Weather seasonable. Prospects of crops good. Aman paddy is being reaped. Rice 10 to 13 seers per rupee.

Backergunge.—Rainfall nil. Weather seasonable. Prospects of crops good. Common rice sells from 8 to 14 seers per rupee.

Tippera. - No rain. Weather seasonable. Harvesting of winter rice going on. Prospects good. Fodder sufficient. Common rice 10 to 131 seers per rupee.

Noakhali.—Rainfall nil. Harvesting of amun commenced. Prospects good. No cattle-disease. Fodder and water sufficient. Price of common rice 14 seers per rupes.

Chittagong.—No rain. Weather seasonable Winter crops doing well except in waveswept tracts. Harvesting has begun in places. Water and fodder sufficient. Rice sells at 12 seers per rupee at Sadar.

Patna.—No rain. Paddy is being reaped. Rubi and poppy doing well. Rates of prices fluctuating. There has been a slight rise in the prices of rice and wheat, and a fall in the prices of barley, rahar and marua. Rice (new) selfing at Patna at 15 seers per rupee. Fodder and water for cattle sufficient.

Gaya.—No rain. Paddy harvesting in progress. Prospects of rabi and poppy good. Burma rice sold at 111 seers, and country new rice 161 seers per rupee.

Shahabad.—No rain. Weather cold. Standing crops excellent. Paddy is being harvested. Cattle-disease reported from one village in Buxar. Fodder sufficient. Common rice selling from 12 to 14 seers per rupee.

Saran.—No rain. Cutting of paddy going on; outturn estimated at 17½ annas. Rabi and poppy doing well. Average prices are—common rice 14.8 seers, wheat 11.5 seers, barley 19.7 seers, makai 19.8 seers, gram 10.13 seers, arkar 10.11 seers and marua 20.12 seers per

Champaran.—No rain. Winter rice being harvested. Rabi sowings still continue. Poppy now germinating well. Prices on the whole fallen. Common rice sells at 144 seers and makai at 214 seers, against normal 178 seers and 234 seers respectively.

Muzaffarpur.—Rainfall nil. Crop prospects good. Harvesting of winter rice in progress. Rabi sowings nearly over. Prices are—common rice 11 to 15 seers, Burma rice 12 seers, wheat 10 seers, barley 14 seers, makai 20 to 21 seers, gram 10 to 11 seers, rahar 11 seers, and marua 23 seers per rupee.

Darbhanga.—No rain: Prospects of crops good. Harvesting of paddy in progress. Fodder and water sufficient. Price of common rice stationary at Sadar.

Mongnyr.—No rain. Weather fine and cool. Harvesting of winter rice in progress. Pressing of sugarcane going on. Rabi sowings on low lands still going on in places. Poppy sowings completed; early sown plants coming on satisfactorily; and general prospects satisfactory. No cattle-disease. Common rice sells as follows:—

```
Monghyr ... ... {7½ to 10 seers (old rice) per rupee. 
12 to 16 ,, (now rice) ,, (old rice) ,, (old rice) ,, (old rice) ,, (now rice) ,, (now
```

Bhagalpur.—No rain. Weather getting cooler. Rabi sowings approaching completion. Sugarcane and winter paddy being out. Fodder and water sufficient. Cattle-disease continues. Common rice (new) selling at 14 seers per rupee at Sadar.

Purnea.—No rain. Harvesting of aghani rice going on. Rabi crops doing well. A few sporadic cases of cattle-disease reported from Araria sub-division. Fodder and water sufficient. Common rice (new aghani) selling as follows:—

```
      Sadar
      ...
      ...
      ...
      15 seers per rupee.

      Araria
      ...
      ...
      ...
      16 ,, ,,

      Kishanganj
      ...
      ...
      14 ,, ,,
```

Malda.—No rain. Weather seasonable. Winter rice being harvested. Mustard and other rabi crops doing well. Kalai pulse approaching maturity. Coarse rice (old) selling at 12 seers per rupee.

Sonthal Parganas.—No rain. Harvesting of winter rice continues. Prespects of winter crops good. No cattle disease. A flight of locusts reported from Denghur on the 2nd instant. Prices are—common rice 11 to 20 seers and maize 15 to 32 seers per rupee.

Cuttack.—Rainfall nil. Weather seasonable. Lighu sarad being harvested. Guru sarad ripening. Rahi in flower. Condition of cattle generally good. Fodder sufficient. Common rice sells as follows:—

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Cuttack ... 13 13 Jajpur ... 17 1 Kendrapara ... 17 1 Banki ... 17 0
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Balasore.—Rainfall nil. Harvesting of beali continues. Sarad ripening and being harvested in places. Rabi crops and sugarcane thriving well. Price of rice varies from 13 to 18 seers per rupee in the interior. Rice sells at 13 and 18 seers per rupee at Balasore and Bhadrak respectively. Fodder and water sufficient.

Angul.—No rain. Harvesting of paddy and pulses in progress. Rice selling at 24 seers per rupee in Angul and 22 seers in Khondmals. Folder sufficient.

Puri.—No rain. Laghu being harvested. Sarud ripening and being reaped in places. Common rice selling as follows:—

Hazaribagh.—No rain. Weather cold and seasonable. Harvesting of paddy going on. Standing crops good. Prospects of poppy favourable. Rice selling at 12 to 14 seers per rupee.

Lohardaga.—No rain. Harvesting of done dhan continues. State of standing crop good. Rice sells at 14 seers per rupee at Ranchi and 10 seers in the interior. Health of cattle good. Fodder and water sufficient. Grain in stock sufficient.

Palamau.—Rainfall nil. Weather seasonable. Harvesting of paddy commenced. Price of coarse rice from 12 to 16 seers per rupes.

Manbhum.—Rainfall nil. Weather seasonable. Prospects of crops excellent. Paddy being cut. No cattle-disease reported. Fodder and water sufficient. Supply sufficient. Average price of common rice:—

General Summary.—There was no rain during the week; prospects remained unchanged. The harvesting of winter rice is everywhere in progress. The rabi, poppy, sugarcane, and other standing crops promise well. A flight of locusts is reported to have passed over Deoghur on the 2nd instant. No cattle-disease is reported except from places in Bhagalpur, Dacca, and Midnapore. The fodder-supply is everywhere sufficient except at Kurigram in Rangpur and at Sirajganj in Pahna. The price of common rice is falling with the appearance of the new grain in the market.

By order of the Lieutenant-Governor of Bengal,

REVENUE DEPARTMENT,

M. FINUCANE,

The 7th December 1897. Scoretary to the Govt. of Bengal.

PRICES-CURRENT (RETAIL) OF FOOD-GRAINS AND SALP IN THE HEAD-QUARTERS STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE SOME NOVEMBER 1897.

- Didistate

### PRICES-UURBENT (retail) of Food-grains and Salt in the Head

1															,			Q	UA	NTI	TI	ES PE	R RU	PE
				W	/ EBA	æ.			B	arlut.		Rio	n, m	not s	ort,	Ri	con,	00M	HON	i.		Jowan (Sorgh)	OR C	HOT
	DISTRICTS		Present return.		Next preceding	return	Corresponding return of last year.		Present return.	Nort preceding return.	Corresponding return of last year.	Present return.	Next preceding	ė	Corresponding retern of last year.	Descent return.	Licens reasons	Next preceding	return.	Corresponding return	of last year.	Present return.	Next preseding return.	Corresponding return
no.	AL																							-
			<b>6.</b> C	ъ.	8. C	<b>7b.</b>	B. (	76. 1	s. Ch.	8. Uh.	8. Cb.	S. Oh	8.	Ch.	8. Ob	. 8.	Ch.	B. 4	Jb. 9	3. 0	Db.	B. Ch	S. Ch	. 8.
1	Burdwan						8	0	***	***	***	8 0	8	0	8 4			10	0 7	10	8	***	***	
8	Birbhum	000	8	4	7	8	7	8	000	000	. 00	8 4	8	0	6 12	{ 11 18	to i	11	0	9 1	13	001	961	
8	Bankura	044	8	8	8	8	8	2	•••	***	000	10 0	10	0	8 12			15 1	12	11	8	-00	***	
4	Midnapore	•••	7	4	7	8	8	0	900	•••	•••	8 4	8	0	8 0	12	8		10   us	}10	0 0	001	000	
5	Hooghly		10	0	10	0	8	0	994	100	***	7 0	7	0	7 8	8	8	8	9	8	8	40:	4+1	
	Bowrah	000	-				***	,	***	200		7 0	6	8	8 0	9	0	8	0	9 1	11	•••	400	j
	-											. 4	(	- 4		8   9	- 0		9	4	-0		4	
1	24-Parganes		900			000			***	***	30.0	6 8		5 4				8	8		13	12 0	70.0	2 0 0
8	Calcutte		9	0		Ì	8		11 6	10 0	10 0					6 8		8	0	8		11 6	10 0	0 10
9	Nadia		8	0	8	0	9	6	•••		•••	5 11				2 10			12	9	6		***	
10	Murshidabad	d	9	0	9	0	10	0	12 0	04#	18 0	8 4				0 18		12		10	0	40.	464	-
10	Jessore	gr04	8	0	7	0	7	4	8 0	8 0	16 0	6 12	2 6	8	6	4 12	0	12	0	10	0		***	
12	Khulna	944		0.0			***	,	***	1	***	9 0				6 12	Kas	10	8	9	0		000	-
13		60+	7	2	8	4	9	0		8 4	***	6	0	6 0 t	7 8	12 att	old nan.	10	2 New	1 9	M.	}	sed	A ALCOHOL MAN AND A MAN AN
14	Dinajpur	***	8	3 0				0	8 0	8 0				6-4-4	7-12-	1 1	New 12	U 13	0	11	9-4-1	1	040	
15	Jalpaiguri	000	8	0	8 0	0	7	7 8		***				5 0		0 10	) 0	9	0	9			084	
14 15 16	Darjeeling	***	6	0	6	0	6	3 0	7 8	7 8	6 8	5 (	0	5 0		8 9				8	0		,	
17	Rangpur	***	7	0	6	12	**		***	***	***	5 1:	2	6 0	6	0 7	7 0	7	8)	8	4	400	***	
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,90	Dacca		8	0	8	10	7	7 0	11 8	8 12 4		7 10	0	8 6	7	6 12	2 8	12	0	10	6	1	.40 d	-
23	Mymensingl				8	3 0	9	8	•••		480	***		6 8	7	0		8	0	6	0		100	
25 AUG 27	Faridpur	***						100	***	***	***	8 Old	1	5 8	5	1	l 4 Old		0	9	8	3	1 100	
23	Backergung	j•		•=•		404			***	000	pg. *	Au	w LD. 8	9	07	D an	man. 9 8 New mau. 2 0 Aus. 2 8		9 8	8 7	7 8	B	-	

Present return not received.

In the subdivisions the retail prices of salt per rupee are:—Kaina 10 seers (panga) and 11 seers (karkatch), Katwa 10 seers (panga).

At Rampur Hat the retail price of salt is 11 seers per rupee.

At Vishnupur the retail price of salt is 12 seers per rupee.

C. At Vishnupur the retail price of salt is 12 seers per rupee.

In the Serampors and Jahamahad subdivisions the retail price of salt is 10 seers (panga), Tamluk 10 seers, and Ghatal 102 seers.

In the Serampors and Jahamahad subdivisions the retail price of salt is 10 seers per rupee.

F. At Ulubaria the retail price of salt is 10 seers 102 chitaks per rupee of salt is 10 seers per rupee.

G. In the marts in the interior of the district the retail prices of salt per rupee are:—Chetla 10 seers, Barasat 10 seers, Haduria 10 seers (panga), Thundanga 10 seers (panga), Thundanga

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## quarters Station Bazars of the Districts of Bengal on the 30th November 1897. WHOLESALE PRICES PER MAUND OF 40

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E. In the subdivisions the retail prices of salt per rupes are:—Bagerhat 9 seers and Satkhira 95 seers.

L. In the subdivisions the retail prices of salt (panga) per rupes are:—Mator 85 seers and Naugaou 8 seers 11 chitaes.

M. At Kurseong and Siliguri the retail price of salt (panga) is 8 seers per rupes.

N. In the subdivisions the retail prices of salt per rupes are:—Galbanda 85 seers, Nilphamari 9 seers, and Kurigram return not received.

At Sirajani the retail price of salt is 10 seers per rupes.

P. In the subdivisions the retail prices of salt per rupes are:—Madangani 10 seers 10 chitaks.

Manikgani 9 seers, Mirkadim and Manshirhat returns not received.

Annikgani 9 seers, Mirkadim and Manshirhat returns not received.

To chitaks, Kagmari 8 seers, and Notrokona 95 seers.

R. In the subdivisions the wholesale prices of salt per mand are:—Madaripur Rs. 3-13 (crushed) and Goalundo Rs. 4-7 (panga).

B. In the subdivisions the retail prices of salt per rupes are:—Pirojpur 8 seers, Bhola 8 seers and Patuakhali 9 seers.

#### PRICES-OUR BENT (rotail) of Food-grains and Salt in the Head-quarters

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Present return not received.

T. In the subdivisions the retail prices of salt per rupes are:—Chandpur 9 seers and Brahmanbaria 9 seers 11 chitaks.

U. At Foni Hât the retail price of salt is 8 seers per rupes.

V. At Cox's Brazar the retail prices of salt is 81 seers per rupes.

W. In the subdivisions the retail prices of salt per rupes are:—Dinapore 10 seers, Rath 102 seers, and Bihar 95 seers.

W. In the subdivisions the retail prices of salt per rupes are:—Nawada 9 seers, Aurangabad 95 seers, and Jahanabad return not received.

Y. In Siwan and Gepalganj subdivisions the retail price of salt is 12 seers per rupes.

Z. At Bettiab the retail price of salt is 10 seers per rupes.

a. In the subdivisions the retail prices of salt per rupes are:—Hajipur 92 seers and Sitamarhi 10 seers.

b. In the subdivisions the retail prices of salt per rupes are:—Samastipur 11 seers and Madhubani 102 seers.

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# Station Basars of the Districts of Bengal on the 30th November 1897 - (concluded).

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Published for general information.

o. In the subdivisions the retail prices of salt per rupee are: — Begusserai 10 seers and Jamui 10; seers.

d. In the subdivisions the retail prices of salt per rupee are:—Kishangan; 9 seers and Araria 9 seers.

Lambera 9 seers (panga), Pakaur 10 seers (karkatch), and Rajmahal return not received.

Jambera 9 seers (panga), Pakaur 10 seers (karkatch), and Rajmahal return not received.

At Bhadrak the retail price of salt is 10 seers per rupee.

At Khurda the retail price of salt is 10 seers per rupee.

At Giridib the retail price of salt is 10 seers per rupee.

At Gobindpur the retail price of salt is 10 seers per rupee.

## PRICES-CURRENT (wholesale) of Food-grains, Firewood, &c.

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· Present return not received,

CALCUITA,
The 7th December 1897.

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## PRICES PER MAUND

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# n the undermentioned Marts of Bongal on the 30th November 1897.

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M. FINUCANE,
Secretary to the Gort of Bengal,

Abstract of the Results of Meteorological Observations taken at the Alipore Observatory in the month of November 1897.

			Inches.	Date:	Hour
and the second			29.988		
The mean pressure of the mouth	ra' registers		29.970		
The average pressure of November from 21 you	4.	100	30.085	24th	10
The highest pressure in the month			29 788	13th	16
The lowest pressure in the mouth			0.297		
			Hours		
The total number of hours of bright sunshine d	luring the u	dtaen			
The maximum mossible number of hours of sun	ahine	a \$60 A	380.8		
ine maximum bossions and a series			. 0		
The mare temperature of the month		4 10 4	72.6		
The mean temperature of November from 24	years' reg	istoru	74.8		
The his best temperature in the month			84.0	4th	
The largest temperature in the month			60.5	30th	
The lowest temperature during the month			23.8		
The range of temperature	000	.41	15.4	h	
the mean daily range of temperature in out day			19.2	20th	
The greatest range of tomportunity			Per cent.	,	
		. 4 -	75		
The mean humidity of the mouth	anda' ragiate				
The average humidity of November from 24 y	CALE LOSIEM	DI 11	Inches.		
my response tension of the month		4 4 -	0.607		
The mean vapour tension of November from	9 years' for	gisters	0.616		
The average vapour tension of the month			2.39		
The mean cloud proportion of November	from 20	rears'			
	***	0.00	2.42		
tegisters			Ins.		
The total rainfall of the month		***	Nu.		
my a sent minfall indicated by a Beckley's 'self	-registering	Lain.	201		
monor impute of the gauge about 02 rect	fonas ene Kr	round)			
The average fall of November from 48 years' r	registers				
The oreatest fall in 24 hours	4 -				
			TEM 70 4 0 "		
The number of rainy days in the month	6	***	TA177		
The average number of rainy days in November	at mom 29	AGRIE			
registers	a n +	***	•		
The meen maximum equilibrium temperature of	of solar rad	iation	0		
during the month		0.00			
The mean difference of sun and air temperatur	res	. 04		20.2	
The greatest sun temperature					
The special excess of ann over air temperature		+ 10 4	98.3	let	
The mean temperature of the nocturnal radiate	ion therme	meter			
on woollen cloth	0.0.0	000	98.9		
The mean depression of the nocturnal radiati	ion thermo	meter			
below the minimum air temperature at 4	feet abov	o the			
	0.00		6.1		
The greatest depression of the nocturnal radia	tion thermo	meter			
below the minimum air temperature			9.2	21st	
OCION INC.			Miles.		
			36.0		
and the same does		4.0-0			
The mean movement of the wind per day			75.0	24th	
The mean movement of the wind per day  The greatest movement of the wind in one day  The greatest movement of the wind in one hou		000	0.0		1 to noon.
	The lowest pressure in the month The range of pressure  The total number of hours of bright sunshine of the maximum possible number of hours of sun. The mean temperature of the month The average temperature of November from 24. The highest temperature in the month The lowest temperature in the month The range of temperature during the month The mean daily range of temperature in one day.  The mean humidity of the mouth The average humidity of November from 24. The mean vapour tension of the month The average vapour tension of the month The average cloud proportion of the month The average cloud proportion of November registers  The total rainfall of the month The total rainfall indicated by a Beckley's self gauge (mouth of the gauge about 52 feet of the average fall of November from 48 years' in the greatest fall in 24 hours  The number of rainy days in the month The average number of rainy days in November registers  The mean maximum equilibrium temperature during the month The mean difference of sun and air temperature from the greatest sun temperature. The greatest sun temperature The greatest excess of sun over air temperature. The mean depression of the nocturnal radiation woollen cloth  The mean depression of the nocturnal radiation below the minimum air temperature at the personnel of the nocturnal radiation below the minimum air temperature at the personnel of the nocturnal radiation of the minimum air temperature at the personnel of the nocturnal radiation below the minimum air temperature at the personnel of the nocturnal radiation below the minimum air temperature at the personnel of the nocturnal radiation below the minimum air temperature at the personnel of the nocturnal radiation below the minimum air temperature at the personnel of the nocturnal radiation below the minimum air temperature at the personnel of the nocturnal radiation below the minimum air temperature at the personnel of the nocturnal radiation the personnel of the nocturnal radiation the personnel of the nocturnal radiation the pe	The bighest pressure in the month The lowest pressure in the month The range of pressure The total number of hours of bright sunshine during the maximum possible number of hours of sunshine The maximum possible number of hours of sunshine The mean temperature of the month The average temperature in the month The lowest temperature in the month The range of temperature during the month The mean daily range of temperature The greatest range of temperature in one day The mean humidity of the month The average humidity of November from 24 years' register The mean vapour tension of the month The average vapour tension of November from 9 years' registers The total rainfall of the month The average cloud proportion of November from 20 years' registers The total rainfall indicated by a Beckley's self-registering gauge (mouth of the gauge about 52 feet above the gauge (mouth of the gauge about 52 feet above the gauge (mouth of the gauge about 52 feet above the greatest fall is 24 hours The number of rainy days in the month The average number of rainy days in November from 24 registers The mean maximum equilibrium temperature of solar radiation the mean difference of sun and air temperature The greatest sun temperature The greatest excess of sun over air temperature The mean depression of the nocturnal radiation therms on woollen cloth The mean depression of the nocturnal radiation therms on woollen cloth The greatest depression of the nocturnal radiation therms of the nocturnal radiation therms on woollen cloth The greatest depression of the nocturnal radiation therms	The highest pressure in the month The lowest pressure in the month The lowest pressure in the month The range of pressure The total number of hours of bright sunshine during the menth The maximum possible number of hours of sunshine The mesn temperature of the month The average temperature of November from 24 years' registers The highest temperature in the month The lowest temperature in the month The range of temperature during the month The mean daily range of temperature The greatest range of temperature in one day  The mean humidity of the mouth The average humidity of November from 24 years' registers The mean vapour tension of the month The average vapour tension of November from 9 years' registers The total rainfall of the month The average cloud proportion of November from 20 years' registers The total rainfall of the month The total rainfall indicated by a Beckley's self-registering rainguage (mouth of the gauge about 52 feet above the ground) The average fall of November from 48 years' registers The mean maximum equilibrium temperature of solar radiation during the month The mean difference of sun and air temperature The greatest excess of sun over air temperature The greatest excess of sun over air temperature The greatest excess of sun over air temperature The mean temperature of the nocturnal radiation thermometer on woollen cloth The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground The greatest depression of the nocturnal radiation thermometer	The mean pressure of the month The average pressure in the month The lowest pressure in the month The range of pressure The total number of hours of bright sunshine during the meanth The mean temperature of the month The average temperature of November from 24 years' registers The mean daily range of temperature The mean daily range of temperature in one day The average vapour tension of November from 24 years' registers The mean humidity of the month The average vapour tension of November from 9 years' registers The average cloud proportion of November from 20 years' registers The total rainfall of the month The total rainfall indicated by a Beckley's self-registering raingauge (mouth of the gauge about 52 feet above the ground) The average fall of November from 48 years' registers The total rainfall indicated by a Beckley's self-registering raingauge (mouth of the gauge about 52 feet above the ground) The average fall of November from 48 years' registers The mean restimum equilibrium temperature of solar radiation during the month The average number of rainy days in November from 24 years' registers The mean maximum equilibrium temperature of solar radiation during the month The average fall of November from 48 years' registers The mean maximum equilibrium temperature of solar radiation during the month The average fall of November from 48 years' registers The mean maximum equilibrium temperature of solar radiation during the month The average number of rainy days in November from 24 years' registers The mean maximum equilibrium temperature The greatest excess of sun over air temperature The greatest excess of sun over air temperature The mean depression of the nocturnal radiation thermometer below the minimum air temperature  109-5	The mean pressure of November from 24 years' registers 29-976 The highest pressure in the month 29-988 The highest pressure in the month 29-988 The total number of hours of bright sunshine during the month 222-8 The maximum possible number of hours of sunshine 222-8 The mean temperature of the month 77-6 The mean temperature of November from 24 years' registers 74-8 The lowest temperature of November from 24 years' registers 74-8 The highest temperature during the month 60-2 The mean daily range of temperature

The number of hours with winds from each of the 8 points—
N. 222, N.E. 69, E. 18, S.E. 9, S. 1, S.W. 13, W. 33, N.W. 83, Calm 272.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 tee higher at Alipore, and, other things being equal, reads therefore '008 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 1.6° lower; and, finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

MHTHOROLOGICAL OFFICE, GOVT. OF INDIA, For Meteorological Reporter to the Goot. of India.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of November 1897.

10		Inches. Date.
The mean pressure at 10 A.H during the month		29.996
The mean temperature at 10 A.M. during the month		<del>7</del> 7.9
The highest temperature during the mouth		86.5 11th.
The lowest temperature during the month		59.9 30th.
The absolute range of temperature during the month		26.6
The mean daily range of temperature during the month	***	17.7
The greatest range of temperature in one day during the month		21.8 19th.
		0/0
The mean 10 A.M. humidity during the month	***	66
		Inch.
The mean 10 A.M. vapour tension during the month	400	•629
The total rainfall of the month		0.01
The greatest fall in 24 hours		0.01 9th.
The number of rainy days in the month		Nil

C. LITTLE,

Meteorological Reporter to the Govs of Bangal,

METEOROLOGICAL OFFICE BENGAL,

The 6th December 1897.

Results of the Barometrical and Thermometrical Observations taken at the Meterrological Office, Chowringhee, from 28th November to 4th December 1897.

		O A.M.			TRMPER	ATURE.			H	GROMETRY.		Pogra
Morrn.	Date.	Pressure at 10 corrected and recto 32 Fahr.	Daily mean.	Maximum.	Range.	Minimum,	Dry bulb at 10 A.M.	Wet buib at 10	Vapour tension at 10 a.m.	Dew point at 10 A.M.	Humidity at 10	Reinfell, part 261
1897. Kevember	28th 29th 30th 1st 2nd 3rd 4th	80 024 29 982 976 30 005 065 073	71·2 72·2 70·2 68·2 66·6 66·4 66·9	81·5 81·4 8··5 79·5 78·2 78·0 78·0	20-6 18-b 20-6 20-6 23-3 23-3 22-8	60-9 62-9 59-9 58-9 54-9 54-7 55-7	76-1 76-6 74-5 73-6 70-8 71-6 71-4	63·3 63·6 65·6 66·6 61·7 62·7 63·6	690 593 512 560 430 452 481	63°6 63°8 59°6 62°1 54°7 56°1 57°9	85 65 60 68 57 58 63	inoher Nil,

The total fall of rain from 28th November to 4th December 1897 ... Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, BENGAL.

The 6th December 1897.

C. Lettle,

Meteorological Reporter to the Gost. of Bengal

Results of the Meteorological Observations taken at the Alipore Observatory iron 28th November to 4th December 1897.

			Jo a	meter		TEMPE	HATUHR	t.		Нуовом	MTHY		WIND.			
Month.	Date.	Mazimum in sun.	Number of bours bright sunshine.	Mean pressure barom at 32. Fahr,	Mean.	Maximum.	Range.	Minimum.	Mean wet builb.	Vapour Lension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	WEATHER
1897.	1	4		Inches.	0	1	0		1 0	Inche	p	1 %			Inulias.	
Nov.	28th	188-5	9.4	29.959	70-0	79-8	18.9	60 9	65.1	0.555	61.9	75	N N W, N, and	31	Nil	Chiefly clear,
**	29th	133.0	8*2	-928	70.5	79.6	16 6	63.0	64.8	-539	61.0	72	N N W and calm	23	• • • • • • • • • • • • • • • • • • • •	Chiofly clear
0	80th	123-8	6.5	923	87.6	77.8	17 6	60 2	63-4	.529	60 5	78	N N W and calm	10	21	Partially cloudy,
Dec.	let	125.2	9.0	-959	67.0	77.8	19-6	59 2	61.0	-458	56-4	69	N N W and calm	20	91	Shietly clear,
1.0	2nd	130-2	9.2	-998	64.5	76.3	21 6	54.7	58.5	413	53 6	08	N. N. N. W., and	27		Cir .
••	8rd	128.3	9.2	30.000	65.1	76 1	21.4	54-7	59.0	•420	64 1	68	N N W and calm	25	,,	Clear,
80	4th	130 7	8.8	-024	64.9	76-2	20.8	55.4	59.7	-445	55.7	72	N N W, W N W,	81	> 0	Clear,

The mean pressure of the seven day:					Incho- 29:970
The average pressure of the corr		mod for 2	4 years, Sur		20 011
General's Office	4.6		+ 9-10		30 010
The total number of hours of bright	manual inco				Hours.
		* -	***	+ 0 +	50.8
The maximum possible number of h	onts of shustl	tie	100		758
The mean temperature of the seven	days	* * •			67.1
The average temperature of the co	Les hougist b	eriod for t	24 years, Sim	Vayer-	
General's Office		* n *	***		707
The extreme variation of temperatur	е	0.0			25.1
The maximum temperature	* * *		***	* * *	79·8
The highest velocity of the wind in	one hour	4 0 0	6 g W		6
					4/:
The mean relative humidity			* 10 4	9	72
The average relative bumidity of	the ourresp	puding pe	mod for 24	yanes,	
Surveyor-General's Office	***	4 0 0	0.0.0		p 1
The total fall of rain from 28th Nov	ember to 4th	December	1897		Inches. Nil
The average fall of the corresponding				hera!'a	
Office			* * *	0.01	0.04
The total fall from 1st January to 4	th December	1897	* * 9		58.33
The average fall of the corresponding	g period for	2 years.	Surveyor-Ge	ueral's	
Office					65.19

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and The mograph,

and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified and the readings have been corrected to a standard constructed and verified at the They are exposed under a 'thatched shed open at the sides, and are suspended tour test Kew Observatory. above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 36, formerly at the Surveyor-General's Othco.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed if

the Meteorological Office, and based on Regusuit's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beekley's anemograph. The mouth of the rain-gauge is one foot above the ground. A, dew.

METEUROLOGICAL OFFICE, GOVE. OF INDIA, Calcutta, the 6th December 1897.

J. H. GILLILAND, For Meteorological Reporter to the Guil. of July

## TRRIGATION DEPARTMENT, BENGAL.

Abstract statement showing Tollage on Canals in Bengal classed as Major Works for the month of October 1897, as compared with that of the corresponding month of the previous year.

0	1	Lori	LAG	R, 1897-9	8,			Poli	LAG	r, 1896-97	۲.	_
Canals.	Durin	ng th		To end	of ath.	the	Duriu	g t		To end	l of	
1		5			3		4	1			5	-
Orissa Circle.	Rs.	Α.	P.	Rs.	Α.	P.	Rs.	Α.	 Р,	lts.	Α.	P.
Taldanda Canal System	715	4	2	7,250	2	1	654	2	11	17,612	8	6
Kendrapara ditto	8,257	11	- 3	67,559		0	12,083	-	2	61,698		3
High Level Canal, Range I	1,512	2	6	9,480		0	-368		0	9,683	5	()
Ditto, ,, II	254		6	1,330	4	3	-649	8	0	1,784		3
Ditto, " III	48		3	309	7	0	-666	10	-6		1	0
Jajpur Canal	42	3	9	187	12	9	-22	4	3	165	7	6
Total Orissa Circle	10,829	10	3	86,117	0	1	11,030	10	4	91,404	G	6
South-Western Circle.	-		-								-	
Midnapore Canal	8,183	2	6	77,186	12	0	15,475	6	6	93,355	1	3
Hijili Tidal Canal	5,559		6		5	3	8,226	7	0	64,293	0	6
Total South-Western												_
Circle	13,742	8	0	1,41,433	1	3	23,701	13	6	1,57,648	1	9
Sone Circle.												
Patna Canal System	2,438	10	6	13,465	13	8	1,408	14	9	12,782	6	()
Arrah ditto	3,009	3	9	19,558		9		11	6	12,515	3	9
Buxar ditto	581	8	9	5,545	2	9 :	680	12	0	5,698	9	()
Total Sone Circle	5,629	7	0	38,569	6	3	3,639	6	3	30,996	2	9
GRAND TOTAL	30,201	9	3	2,66,119	7	7	38,371	14	1	2,80,048	11	0

### Government Transport Service.

			TOLLAG	FR, 1807	-98.				Tolla	GE, 1890	3-97.	
4	Dr	aring th	e month.	To	end of the	he month.	1	ning t	he month.	To	end of th	ie month.
CANAL.	Passengers, Goods, Total re-		Total re-	Pa-sengers.	Goods	rotal re- ceipts.	Passengers,	Goods.	Total re-	Passengera,	Goods.	Total re-
1	2	4 0		В	6	7	8	9	10	11	12	13
Orissa Circle.	irele. No. Mds. Rs. A.		Rs. A. P.	No.	Mds. 5,081	Rs. A. P. 27,284 7 6			Re. A. P. 3,814 7 2		Mds.	Ro. A. P.
Potal Osissa Circle	7,872	358	5,787 6 8	35,874	5,081	27,284 7 6	4,670	680	8,814 7 2	22,192	3,087	19,648 15 9

### Assessed Tollage Receipts.

	į	E	ARNING	s, 1897-98	3,		E	ARN	IINC	ss, 189 <b>6</b> -9	7.		
Oanals.		L)urin mon		To end		the	Durin		ıe	To end	-	the	
1		2		3			4			5			
	1	Rs.	А. Р.	Rs.	Α.	P.	Rs.	A.	P.	Rs.	Α.	P.	
Orissa Canals	***	16,617	0 6	11,340	7	7	14,845	1	6	1,11,053	6	3	
Midnapore Canal		8,183	2 6	77,186	12	0	15,475	6	6	93,355	0	3	
Hijili Tidal Canal		5,559	5 6	64,246	5	3	8,236	7	0	64,293		6	
Sone Canals		5,649	7 0	38,569	6	3	3,639	6	3	30,996	2	- 8	
Total	• • •	35,988	15 6	2,93,403	15	1	42,186	5	3	2,99,697	10	y	

CALCUTTA, 2he 7th December 1897. T. H. CLOWES, Under-Seey, to the Govt. of Bengal,

# IRRIGATION DEPARTMENT, BENGAL.

Abstract statement showing Tollage on Canals in Bengal classed as Minor Works and Navigation for the month of October 1897, as compared with that of the corresponding month of the previous year.

		T	OLL	AGE	, 1897-98			. <b>T</b>	OLL	AGE	, 1896-97.	•	
CANALS.		During		В	To end		he	During		B	To end mon		he
1		2			8			4			5		
		Rs.	۸.	P.	Rs.	۸.	P.	Rs.	٨.	P.	Re.	<b>A.</b>	2.
Calcutta and Ea Canals Tolly's Nala	stern	28,285 5,392	13 12	9	1,40,582 35,899	1 9	8	33,630 6,944	1 0	8	1,55,823 41,678		9
Total	• • •	33,678	10	3	1,75,931	10	9	40,574	2	0	1,97,497	4	9
Orisea Coast Canal		5,938	2	8	46,581	13	3	9,335	5	0	56,599	13	9
Nadia Rivers	964	8,998	8	0	55,051	0	9	10,274	4	0	69,522	9	9
GRAND TOTAL		48,610	4	6	2,77,564	8	9	60,183	11	0	3,23,619	12	3

OALGUTTA,
The 7th December 1897.

T. H. CLOWES,
Under-Secy. to the Goot. of Bengal.

# CIRCULAR AND EASTERN CANALS.

Approximate Return of traffic for the week ending Saturday, the 4th December 1897, as compared with the corresponding week of the previous year.

			WREE RY	DECEMBER 1	DAY, THE 897.	WERE RI	nding Saturd m December 1	AY, THE 896,
NATURE	OF CARGO.		Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tullage.
			No.	Mds.	Ra.	No.	Mds.	Ra.
Rice and paddy fute Firewood	000	000	292 685 89 849	30,700 8,01,976 74,175 1,95,476	323 4,751 1,109 2,766	600 401 73 886	41.725 1,59,390 64,550 2,47,760	2,80 82 3,86
	Total	000	1,915	6,02,825	8,989	1,960	5,03,425	7,89

### BENGAL CENTRAL RAILWAY.

Abstract of principal commedities carried over the Bengal Central Railway during the month of September 1897, as compared with the same month of the previous year.

			_				100	q.	1896,		Tor	AL,	Increase.	Decreues.
	61	APLI	M <sub>a</sub>				Up.	Down.	Up.	Down.	1897.	1696.	Z Z D O T O MARIO.	
							Tons.	Tons.	Tons.	Tons.	Tone.	Tone.	Tone,	Tone.
			ton th	a Pa	allde	ezd	1,461		2,201		1,461	2,961	*****	750
Coal and Coke	12.00		IOS PH					1	10000	111140	1	******	1	essète.
otton, raw	la of 12 mg	d	***	000	000	480	*****		181		75	151	101 may	76
LALIST MILC	3 me mi	Indi	pean	***	0.00	00+	76	3.000	888884	D04***	484	922	040-49	366
Piece-good Ditto,	de, Eu	ropes ian	EB		1000	601	484		1	GS c 7-74	8	1	1	**1000
rum and Ch	ng, uu	Mall Mal	ил Ој	pium	000	00+		000***	*****	•••••	000111	*****	*****	******
Non-intoxic	augue-		1-0	0-00	000	904	Recipe	******	11-101		2	8	*****	PRIMA
d he hasten.	- 04	***		427	***	***	2	******	8	<b>60</b> 0000			******	
res and Tan Indigo		000	000	000	***	000	44444	1	3	*****	1	8	*****	
	-	400	000	004	***	801	2 5	13	1	42	27	100	1	26
Aniline D	705		1657 1669	007	0.00	0.01	d00	and to a s	1	040	000 101	1	,0-00 y ag	
Others	401	000	440	-000		884	44460	010000		*****				
rain and Pu Wheat	100-		049	600	000	84	1	****	149	36	137	185	Mineral Annual	48
Rice in th	ne hual	k hank	500	100	997	60+	16 280	135	1,017	93	415	1,110	111100	696
Jawar and	balra	Man	940	000	986	000	147	8	102	67	150	189	******	39
Gram and Others			0+1	***	***	***	*****	*****	******	***day	00000	Alth. No. o	******	001110
ides and Bk	ins-									1				
Hides of cat Dressed or	E161-mm	d	1 4 0	***	000	***	1							
Raw Skins of She		440	944	980	000	044	}	51	100.00	38	51	38	18	PP1000
1)ressed 0:	r tanne	d	***	.00	000	101								
Raw	900	000	90	***	***	0.0 4	940+++	000 190	*****	100 +00	900 100	*****	000111	900***
ite-					200	941	*****	18,703	F98 00 1	17,216	18,703	17,218	1,485	400004
Gunny-be	iga and	olot	h	***	***	***	20	16	26		34	33	1	510000
Stick	90-0	098	***	945	0.00		3		111200	*****	*****	000100	111110	****
Chall			000	800	000	0.0	6	000000	8	11 344	8	8	444000	
eather, man					***	500	*******	800	000***		++++00	11000	10-000	
Beer Spirite Wines	000	111	***	000	000	900	4	001000 00100	6	Dq4-++	4	4	*****	******
	004													900 000
Copper, n	nwron	ght	444	000	***	***	00000	400.000	000 10	*****	*****	000 000	*****	001 000
Brass, Copper, w	ditto rrough	t	***	000	100	***	10	******* 7	8	6	17	14	******* 8	*******
Bruss, Iron		444	900	***	442	0.01	45	i	60	8 5	46 31	63	\$3	17
Others		0.04		200	***	**	17	15	•					
Kerosine				001	***	***	. 343	23	450	111000	265	450	000111	165
Castor	000	005	***		900 90.	900	11	200400	****** 9	111000	11	9	2	56
Others	***	114	111	***	***	***	90	000	146	84000	90	166	. 49 000	
Linseed	000	000	404	900	004	604		6 78	58	51 39	145	51 94	51	41
Rape and Til or jin	must	ırd	400	995	000	000	7	66	*****	23	71	23	40	000 101
Poppy		+410	100	900	900	***	11/000	001000 011000	******	400000	000.00	000:	200 40	******
Earth-nu Oastor	444	100	444	204	400	900	84444	******	000 000	******	******	****** 9	117100	*******
Others	800	000	900	000	100			101984	800000	9	141444		*****	
aper and Po	autebo	ard	000	001			16	1 + + 900	33	401111	16	21	000.00	16
Ghee		400	464	***	400	004		83		70	33	5 70	00000	37
Dried fru	lits and			000		200	55	54 54	45	76	109	139	989-00	30
lailway pla	nt and		ling-s					940/400		+22000	000000	200 gad	annes	******
Locomoti parts t								000,000	000 000	******	100 000		401 000	600
Carriage	s and t	racks								000+105	111200	00a e00	500 000	4000000
Steel sai	la and	fish and o	-plate	s, aid	opers,	, and	800100	880000			000 000	85	000000	65
Other so	rte	009	994	900	044	604	800 -01	eventure A	85	13	506	669	000++1	183
alt	200	004	499	0.04	900	100	508	•	678		******	****	000	991000
Baltpetre	D	000	P010	004	000	**1	900 000	**************	000000	900.000	000 100	+0-000	000***	000+00
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Poreign Indian	000	004	999	000 000	000	901		986100	111000	01010	100000	a 1 3 0 0 0		
lik piece-go			-	-	940	000	000100	10000	*****	000.000	100000	000101	*******	
Indian-		60-0		-	-	80-	900000	Patron	Beart	00111	100 104	00000	001000	000-000
Badi	000	000	000	100	111		}	000000	******	, 000				

## 4718 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 8, 1897.

		STAT	7.700				10	97.	38	96.	Tor	AL.	Increase.	Da
			2000				Up.	Down,	Up.	Down.	3807.	1896,	A GOLDON	Decrease
							Tons.	Tons.	Tons.	Tops.	Tons.	Tons.	Tons.	Tone.
Betel-n											-	~ 4.5		
Pepper		000	401	0.00	0.00	001	100 000	898	9	688	200	841	00****	148
Ginger	000	944	94.4	000	0-00	200	******	000401	_	405+04	0.00 = 1.0		PS 1 000	4
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A. Y. KELSON,

CALGUTTA, the 3rd December 1897.

Auditor.

# Weekly Return of Traffic Receipts on Indian Railways.

### EAST INDIAN BAILWAY.

Approximate Return of Traffic for the week ended 27th November 1897 on 1,702 46 miles open

	COACEII	O TRAFFIC	3.		R AND MINERAL		(		TRAFFIC	TRAIN-MIL	DO ROW.
	Number of passengure.	Coachin		Weight carried.	Becetpte.	Other earning (essimated).	earning		Couching.	Merchan- dise.	Total.
otal traffic for the week	804,787	(a)3,72,887 218		Mps. s 38,70,458 1		R. A. P 20,696 0 12 2	Rs. 12,12,722 712	A. P. 13 0 5 4	93,467	140,968	334,460
700. 001 000 " ave and per	°5,960,345	°65,68,756	10 0	†7,49,10,948 <b>1</b>	1,48,06,641 10 0	14,77,023 0	3,18,52,421	4 0	1,887,6334	3,923,966	4,811,619
Total for 117 weeks	6,274,082	69,41,144	1 0	7,87,81,404 2	1,50,26,281 0 0	4,97,719 0	2,30,65,144	1 0	1,981,09 1	3,064,988	5,046,028
otal for corresponding week of previous year er mile of railway correst o d- ing week of previous year that for corresponding 219	<b>\$08</b> ,998		2 1 9 9	88,96,339 10	8,03,064 8 11 473 1 8	24,639 10 g			91,590	148,250	340,840
weeks of previous year	6,296,908	66,95,071	15 0	7,06,69,183 0	1,40,69,917 2 10	4,43,323 11 9	2,12,10,313	16 1	1,835,839	3,728,360	4,564 199

<sup>(</sup>a) The increase is chiefly due to the journey of the Viceroy and Suite.

### TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the week ended 27th November 1897 on 22 23 miles open.

	COACEIN	g Traffic	•	Manorand	MAY	FIG.	RR.		Other ear	מומי	go.	7-4-1			TRAIN-MILE	is bun.
	Number of passengers.	Conchi		Weight carried.		Receip	ota,		(estimat	(ed)		Total earn	ilige.	Coaching.	Merchan- diss.	Total.
-		Rs. A	. P.	M.Da.	6.	Re.	▲.	P.	Re,	A.	P.	Re.	A. P.			
otal traffic for the week per mile of railway previous 20} weeks of half-	(a) 19,201	(a) 4,685 210 ]		15,053	10	20 20	11 15	0	8	5			0 0	1.097	91	1,188
7067	*413,143	*97,449	1 0	12,04,729	0	18,572	1	0	\$129	0	0	1,06,150	8 0	22,646	1,811	34,457
Total for 31# weeks	432,343	1,02,134	6 0	, 2, 19, 782	10	9,237	13	0	137	0	0	1,11,500	2 0	23,743	1,903	25,645
COMPARISON.																
otal for corresponding week of provious year mile of railway correspond-	22,236	5,431	3 0	16,708	0	715	18	0	8	6	0	6,155	8 0	1,074	114	1,788
ing week of previous year	000000	244	5 1	406 001		22	3	4	0	6	0	276	14 5	*** ***		200.40
weeks of previous year	451,673	1,07,436 1	4 2	2,12,527	20	9,471	6	0	909	1	3	1,17,115	3 5	28,994	1,489	26,500

<sup>(</sup>a) The decrease is in outward traffic principally from Tarkessur.

### DELHI-UMBALLA-KALKA BAILWAY.

Approximate Return of Traffic for the week ended 37th November 1897 on 160.47 miles open.

	COACHIN	o Traypic.	MERCHANDIST TEA	AND MINERAL PPIC.	Other carnings		TRAPPIC	TRAIN-MIL	30 BUN-
	Number of passengers.	Conching receipts.	Weight carried.	Receipts.	(cotimated).	Total carnings,	Coaching.	Merchan- dise.	Total.
		Ba, A. P.	Mns. s,	Ro. 4, P.	Es. A. P.	Re. A. P.			
tal traffic for the week per mile of railway pr previous 204 weeks of half-	16,051	(a)17,558 2 0 100 9 8	90,973 30	13,485 12 0 84 10 8	130 0 0 0 11 11	81,293 14 0 195 0 3	7,255	3,690	10,946
Are 020 000 000	*338,784	*4,02,235 11 0	†17,11,384 <b>3</b> 0	12,69,006 9 0	11,987 0 0	6,74,190 4 0	161,011	83,148	244,150
Total for 21† weeks	884,788	4,19,894 13 0	15,01,567 20	3,83,552 5 0	2,107 0 0	7,08,464 8 0	168,266	96,838	255,104
COMPARISON,									
Mai for corresponding week of previous year ingw eek of previous year ingw eek of previous year.	17,590	15,489 19 4	78,033 10	19,461 13 0	54 8 9	27,915 13 10	6,590	3,445	9,96
tal for corresponding 319	308,896}	96 5 5 8,38,996 4 9	18,64,084 80	77 4 7 2,01,985 3 9	0 5 6	173 15 5 5,37,290 12 4	145,391	71,881	217,919

<sup>(</sup>a) The increase is chiefly due to the journey of the Viceroy and Suite.

Deducted number of passengers 1,160 and added Ra, 13,150 to Mds. 2,19,751 and

Ma. 13.155 
9,698 on account of difference between the approximate and audited figures for the week ended 2th 2,589 October 1897.

Added Mds, 213 and 5 on account of difference between the approximate and audited figures for the week ended 50.

T Deducted Mds. 3,903 and added

Md. 5,398 on account of difference between the approximate and audited figures for the week ended 9th

3 Added

### EASTERN BENGAL STATE BAILWAY.

(INCLUDING N. B., DAGCA, K.-D., AND ASSAM BEHAR SECTIONS.)

Approximate Beturn of Traffic and Milesge for the week ended 27th November 1997 on 817 miles open.

	COACHIN	TRAFF:	c.	Минсиа	Taa	PPIC.	eea)		Other carr		gu	Total			TRAPPIC	TRAIS-MILL	DO ROY,
6.	Number of passengers.	Conch		Weig		Receip	tn.		ferry)			OMP IN IN	gr.		Coaching.	Merchan. disc.	Total,
		Re.	A. P	. Ma	d. f.	Ba.	A. 7		Bo.	d. 1	P.	Be.	۸.	P.			
Total traffic for the week Or per mile of rallway	199,500	1,09,19			300 0 412 0	2,65,700	0	9	87,560 38	0	0	4,18,440 *487			81,980	47,369	74,800
For provious 80 weeks of helf-	3,527,343	16,88,678		2,19,83,	788 0	45,54,613	0	0	8,38,198	4	0	65,41,479	4		667,477	863,877	1,024,354
Total for \$1 weeks	3,726,863	17,97,860	0	0 2,24,13,	112 0	45,20,313	0	U	3,75,788	0	0	60,93,919	0	0	691,677	611,236	1,600,013
COMPARISOR.																	
Total for corresponding period of previous year	250,566	1,27,46	0	0 10,92,	<b>200</b> 6 0	1,14,866	0	U	83,808	0	0	8,74,495	D	0	32,500	44,305	76,80
Per mile of railway correspond- ing week of previous year	806	16	9	0 1,	,046 -0	308	. 0		23		0	443	0	0	10000	999101	T10.40s
Total to corresponding dute of previous year	4,444,194	90,54,900	0	0 2,96,91	,678 0	50,41,294	0	0	3,71,038	0	0	74,67,361	.0	0	677,046	983,775	1,000,001

<sup>\*</sup> Excluding steamer carnings, † Audited up to 9th October 1897.

### DACCA STATE RAILWAY.

Approximate Return of Traffic and Mileage for the week endel 27th November 1897 on 86 miles open.

	COACHIRE	TRAFFIC	3.	MERCHAFI	EAF:		ER.	AL	Othe	r		Tota	.1		TRAFFIC	TRAIS-MIL	LED RUN
	Number of puseengers.	Conchi		Weight carried,		Receip	ta.		(Delith 18)			operate.	gn.		Coaching.	Merchan- dise	Total
		Ro.	A. P	MDs	ß,	Ra,	Α,	P.	Rq.		P.	Ro.	4.	P.			1
Total traffic for the week Or per mile of railway	23,440 173	8,370 97	0 0	63,446		5,690 66	0	0	100	0	0	14,150 165	0	0	1,827	1,803	4,3
For previous to weeks of half-	418,697	1,97,999	0 0	7,61,880	0	€5,978	0	0	4,373	0	0	2,07,063	1	0	87,015	46,708	83 195
Total for 21 weeks	449,047	1,45,700	0 0	8,24,920	0	71,596	0	8	4,453	0	0	2,21,812	0	0	29,592	48,511	86,149
COMPARISON.																	
Total for corresponding week of previous year	22 346	7,500	0 0	18,870	1 (	2,575	0	0	6 0	0	0	10,675	0	0	2,065	1,100	2,38
Per mile of railway correspond- ing week of previous year	259	87	0 0	310	1	80	0	0	7	0	0	1,36	0	0	000000	1 16 PT .	agin .
Poisi to corresponding date of	470,303	1,83,218	2 6	718,290	0	63,877	0	0	4,614	0	0	3,34,460	0		80,678	27,267	17,00

<sup>\*</sup> Andited up to 9th October 1897,

### BENGAL CENTRAL BAILWAY COMPANY, LIMITED.

Approximate Return of Truffic and Mileage for the week ended 27th November 1897 on 125 miles open.

i de	COACETE	TRAFFI	8.		MERCHAND	AU RAS	and Minn	HAA						TRAFFIC	Tagment!	.30 87
- Va.6 - V	Number of passengers.	Conchi			Weight ourried.		Booring	iu.		Other care	ngo.	Total questi	gu.	Quaching.	Merchan- disa.	200
		Ro.			M.De.		180. A		r.	Ba. A.		Ba A	2.	8,907	4,630	
Foral traffic for the week Or per mile of railway For previous 10 weeks of lasti-	80,186 841	14,205	0	0	718		8,368	0	0		94	181 0	0	04,935	90,759	170
NOTE OF THE ST	667,394	8,46,790	0	0	34,59,954	_	2,38,871	-	0	3,103	0		0		99,296	18
Total dar III weeks	087,580	3,01,118	6	0.	25,48,285	0.	9,47,610	4	0	3,656	0	g-16,11, <b>00</b> 5 ◆	0	88,748	90,000	
Total for corresponding week of previous year	88,680	34,100		0	68,088	0	4,034	0	0	168	0 0	38,905 0		8,679	2,001	
Per mile of railway correspond- ing week of previous year Total to corresponding date of	900	118		0	846				-				0	80,891	79,477	1
previous year	794,163	3,\$63279			\$1,40,058		1,99,594	0	-0	4076	• 0	4,89,948 0	0	40,000		

<sup>\*</sup> Andried up to week ending and October 1897,

DARJER	LING	-HIMALA	YAN RAT	LWAY	COMPANY,	LIMIT	RD.			
Approximate ( Corresponding	Marnine	e for the	week ending	27th N	ovember 1897	*** **		Ra 12,418 12,390		. P.
Incre		+6n	101	999	000	1de	/90	27	11	6
Beceipts per 1 Ditto for t	mile for	r the week responding	ending 27th period of 1	Novem	ber 1897	***	900	243 242	7	10
Incres		001	age ,	***	***	000	600	0		8
Receipts from Corresponding	lat Ju period	ly to 27th of 1896	November	1897	900	***	000	8,16,348 3,16,901	0	0
Decre	<b>A5</b> 9	000	•••	980	000	900	100	663	0	0



# The Calcutta Gazette.

WEDNESDAY, DECEMBER 15, 1897.

### OFFICIAL PAPERS.

[N.n-Subscribers to the GAZETTE may receive the Supplement separately on payment of Six Rups separately separately on payment of Six Rups separately sep

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# RESOLUTION ON THE ANNUAL GENERAL ADMINISTRATION REPORT OF THE PATNA DIVISION FOR THE YEAR 1896-97.

# GENERAL DEPARTMENT-MISCELLANEOUS.

Calcutta, the 11th December 1897.

RESOLUTION-No. 3694.

### READ-

The Annual General Administration Report of the Patna Division for 1896-97.

THE Commissioner's report was not received till the 13th August 1897, forty-two days after it was due to Government. The delay was unavoidable and due to the extra strain upon the District Officers on account of the famine.

Mr. Bourdillon, by whom the present report is submitted, was in charge throughout the year. In four out of seven districts there was no change of District Magistrate, and in three districts not even of Subdivisional Officers.

District Magistrate, and in three districts not even of Subdivisional Officers.

2. Tours and Inspections.—The Commissioner was 105 days on tour, his regular programme being much interfered with by the exigencies of famine

work, Of the District Officers, the Collector of Muzaffarpur (Mr. Hare) was unable to spend more than 66 days on tour, owing to the necessity of organising famine work at head-quarters, while among Subdivisional Officers, the tour of Mr. Beachcroft (Samastipur) extended to 73 days only, of which no explanation has been furnished.

The tours of District and Subdivisional Officers generally were adequate. In most districts, however, the requirements of famine work prevented any

organised tour programme.

Weather and Crops .- Throughout the Division the rainfall was both insufficient and ill-distributed. The rains commenced late, and the excessive falls in the beginning of July and middle of August, notably in Muzaffarpur, damaged the bhadoi crop by floods; these alternated with long periods of drought, which withered the rice seedlings and newly transplanted rice. After the middle of September there was no rain until the end of November, when the fall was heavy in South Bihar only. Fortunately the cold-weather rains were favourable, and throughout February and March there were several substantial showers which greatly improved the rabi crop, of which, however, the area sown was below the average. The outturn of all crops suffered greatly and the loss was the more felt, in that the previous year's crops also had been deficient. Speaking generally, the Commissioner estimates the deficiency in each district as a whole on the normal harvests of the year at one-sixth in Patna and Gaya, onefourth in Shahabad, in Saran one-third, Muzaffarpur two-fifths, and Champaran and Darbhanga one-half, but in the distressed areas the loss was even greater. In the distressed districts the outturn of the winter rice is estimated at from  $1\frac{1}{4}$ to 5 annas of an average crop. The poppy crop was below the average, and the indigo season was only to some extent saved by the unusually good produce from the second cuttings.

Public Health. - The year was more un' ealthy than its predecessor and the rate of mortality for the Division rose from 30.46 to 38.5 per mille. Cholera and fever in the early months of the year caused a large mortality. especially in Muzaffarpur and Darbhanga. Some of the increase is attributed to better reporting in Patna, Gaya, and Saran, where special efforts were made to secure more accurate registration, but elsewhere it was due to excess of unhealthiness. The increased mortality of the year under review was not due to famine, for in consequence of the exceptionally dry autumn the death-rate in the last three months of the year, when alone increased death-rate from famine could have shown itself, was everywhere unusually low, in spite of the prevailing high prices and scarcity. The death-rate was in fact lower than the normal rate

during the period of famine from December 1896 to October 1897.

Material condition of the people. The scarcity which made itself acutely felt towards the end of the year greatly affected the material condition of the poor classes, though the high prices enabled such as had their crops unmortgaged to realise a larger profit on any surplus produce they had for sale. Commissioner is of opinion that the famine relief operations have established the facts that about 3 per cent. of the population are habitually on the verge of starvation, or rather would be were it not for the intervention of private charity, and that much more grain is stored by the agricultural population than is usually supposed. At the same time the Commissioner points out that the poorer townsfolk, and the poor of the better classes everywhere, have been able to

withstand the prevailing scarcity with very little outside assistance.

6. Emigration and Immigration.—The number of emigrants to the Colonies and the tea districts did not differ materially from that in the previous year, being 1,997 and 834 as against 1,961 and 865, respectively. With regard to the question raised in last year's Resolution as to the reason why emigration from the North-West Provinces and the Central Provinces should be so much greater than from Bihar, where the population is denser and poorer, the Commissioner offers various possible explanations, of which the most likely are the preference of local agents for coolies of the North-Western Provinces en account of their superior physique, the employment offered by the Indigo industry to such classes as would otherwise emigrate, the annual rice-cutting in the Terai and Lower Bengal, and the well-known dislike on the part of the people of Bihar to leave their homes.

7. Prices of food and labour.—Prices which were normal for the first five months of the year began to show the effects of the unfavourable crop prospects early in September, when a continued rise took the place of the fall which usually ensues as the bhadoi crops come upon the market. When the loss of the winter rice appeared certain, prices rose suddenly. After the subsidence, however, of the first panic, they remained steady until the close of the year, although from 80 to 100 per cent. above what they were at its commencement. Wages showed no corresponding increase, though the custom of payment in kind mitigated the pressure of the high prices for a large proportion of the agricultural labourers.

8. Trade and Statistics.—The effect of the prevailing searcity upon the trade of the Division generally, and that in food-grains in particular, has been

clearly analysed by the Commissioner.

Imports increased by 4.7 per cent. and exports by 45.4 per cent. The important part played by food-grains in this result is shown by the fact that whereas in 1895-96 such produce constituted 35.85 and 50.46 per cent. of the total exports and imports, respectively, the corresponding proportions in 1896-97 were 48.78 and 76.11 per cent. During the first-half of the year there were large exports of food-grains, mostly westwards, which converted a not excess of imports over exports of 14 lakhs of maunds in the same period of the previous year into a net excess of 144 lakes of maunds exported. During the second-half of the year, when it became clear that the crops in Bihar would be a failure, there was a net excess of 62 lakhs of maunds imported, as compared with a net excess of 71 lakhs of maunds exported during the corresponding six mouths of the preceding year. The import trade in food-grains from Calcutta during the year rose from 292 maunds in 1895-96 to 6,35,178 maunds and continued to increase greatly from the end of the year till the termination of the famine. The Nepa'ese authorities prohibited exporta ion of food-grains to Bihar, but there is no doubt that they were, notwithstanding the prohibition, smuggled across the frontier in large quantities. The river-borne traffic between Bihar and the Nadia Rivers was almost entirely killed by the scarcity.

9. Civil Justice.—The total number of original civil suits disposed of by

9. Civil Justice.—The total number of original civil suits disposed of by District and Subordinate Judges rose from 2,468 last year to 2,595 in the year under report. Those disposed of by Munsifs fell from 39,405 to 38,259. Rent suits disposed of by District and Subordinate Judges fell from 213 to 122

in 1896-97, and by Munsifs from 22,705 to 22,243.

10. Crims.—The number of cognizable offences reported fell from 31,166 in 1895 to 30,056, though, if offences against sanitation are excluded, they rose from 22,278 in the preceding year to 23,099. The number of non-cognizable offences reported was 18,157 as against 19,739 in 1895. The chief increase in cognizable cases was under the head of Offences against property, and the prevailing high prices of food-grains is suggested as a reason, though, as the Commissioner points out, this could only have operated towards the close of the year. In the four northern districts and in the portions of Shahabad where the scarcity was most severe there was a diminution in the number of cases of robbery, but an increase in the number of other offences against

property.

11. Criminal Justice.—There were fewer witnesses examined than in the previous year, and there were more Magistrates sitting, yet the proportion of witnesses detained over two days to those examined was slightly worse—4.8 per cent. as against 4.5 in 1895. The proportion is particularly high in Patna Sadar subdivision (11.01) and Barh (18.13), both of which were unfavourably noticed in last year's Resolution. The percentage in Patna City which last year was very high (16.07 has fallen to 1.44. The percentage of A Forms remanded six times and over to the total number disposed of (6.4) was practically the same as in the previous year. The results are worse in Buxar (31.6), Patna Sadar (17.5) and Barh (18.43). The proportion of decisions upheld on appeal improved, being 80.4 per cent. as against 74.9 per cent. in the previous year. The percentage of Sessions cases ending in conviction remained practically the same (72.7). The Lieutenant-Governor notices with pleasure the excellent work done by Mr. Savage, Collector of Gaya, in introducing the Chaukidari Act (VI of 1870) and in inducing respectable and influential men to act as

members of the village panchayets. The Raja of Dec volunteered to take the post of collecting member of his village panchayet: his offer was accepted, and

he has himself been doing the work.

12. Registration of Documents.—There has been a considerable increase in the number of documents registered during the year, especially of mortgage and sale, which is attributed to the prevailing scarcity. The total number registered was 156,233, an increase of 40,803 and 12,774 over the totals for 1895-96

and 1894-95, respectively.

Rs 82,22,835 against Rs. 82,33,656 in 1895-96. The decrease was under the head of Estates held direct by Government. The percentage of total current collections on current demand was 96.9. In permanently-settled estates the collections fell below the standard of 99 per cent. in Shahabad (94.79), Saran (98.20), Muzaffarpur (97.68). These were the same three districts that failed to attain the standard last year. It is noticeable that in Shahabad from 19.6 to 22.6 per cent. of the permanently-settled estates in the district defaulted at the various kists, while at the two sales which were held during the year, only 1.4 and 1.3 per cent. of the defaulting estates were actually sold. The excessive leniency in the administration of the Sale law in this district, which was commented on in last year's Resolution, appears still to continue. Special leniency may have been required by the circumstances of the year under review, but the Lieutenant-Governor trusts that arrears will be realised with promptitude during the current year. In temporarily-settled estates and estates held direct by Government, the percentage of current collections on current demand was as follows:—

			Temporarily-acttled estates.	Estates held direct by Government.
Standard			95. per cent.	90 per cent.
Patna		* 0 8	83.40 ,,	74:54 ,,
Gaya	100		87.95	71.44
Shamabad	0 * *		87.27	57 77
Saran	0.00	* * *	90.47	74.23
Champaran	1 0 0		85.22 "	000-00
Muzaffarpur		* * *	82.79	14.56
Darkhanga			98.11 "	78 52 ,,

The results in temporarily-settled estates are generally better, and those in Government estates generally worse, than in the previous year. The short collections in Government estates have not been explained, but were doubtless

due to the prevailing distress.

The total balances outstanding were reduced from Rs. 3,02,810 in 1895-96 to Rs. 2,93,062. On the whole the collections, notwithstanding the scarcity that prevailed during the latter end of the year, were remarkably good, being 96·1 per cent. on the total demand against 96·3 per cent. in the previous year and 99·3 on the current demand against 99·6 in that year.

The Sale law throughout the Division was administered with great moder-

ation, only 4.3 per cent. of estates liable to sale being actually sold.

As the result of the scarcity during the year, Rs. 1,15,740 were advanced under the Land Improvement Loans Act, XIX of 1883, chiefly in Gaya; Rs. 1,42,062 under the Agriculturists' Loans Act, XII of 1884, chiefly in Champaran, Saran, Muzaffarpur and Shahabad; and Rs. 17,315, chiefly in Saran, under the modified rules issued with Government Notification No. 69Fam. of 5th January 1897.

14. Wards' and Attached Estates.—There were two estates taken in charge and three released during the year; while one estate released was again taken under control within the year. The most important estate which came

newly under the Court of Wards was that of Hatwa in Saran.

The total rent and cess demand due to the 23 estates under the Court's charge amounted to Rs. 20,12,066 arrear and Rs. 17,27,523 current. As pointed out in last year's Resolution, therefore, the arrear demand is still in excess of the current demand, and it has not been reported what effect has been

given to the orders of Government for the classification and remission of arrear balances. Mr. Stevens hopes that due attention will be given to this subject during the present year. The percentage of total collections on total demand fell from 44.4 to 36.3 per cent, in the present year. Leniency had to be shown to the raiyats on account of the unfavourable harvests.

The total expenditure on improvements amounted to Rs. 1,46,576, including Rs. 57,910 on account of maintenance of buildings, &c., and Rs. 43,458 as survey and settlement charges. Of the 21 estates under management in both this and the preceding year, 14 show an increase and 7 a decrease in expenditure under this head. The most noticeable decrease is in the Tikari and Narhan Estates, where only Rs. 66,271 and Rs. 9,962 were spent as

compared with Rs. 99,503 and Rs. 11,187 in the previous year.

The decrease has not been explained, neither has it been clearly stated what effect, if any, has been given to the orders contained in Government Resolution No. 895T R. of 9th October 1896 on the necessity for a larger expenditure on agricultural and sanitary improvements in solvent estates. The expenditure classified by the Commissioner as cost of improvement of land and property amounts to Rs. 31,388, or 1.8 per cent. only on the total current rental

of Rs. 17,27,523.

15. Excise, Stamps and Income-tax.—The excise revenue, which has been steadily increasing during the last five years, received a check, and fell by more than a lakh of rupees from Rs. 27,38,250 in 1895-96 to Rs. 26,34,807. The largest decrease was under the head of Country spirit, chiefly in the Gaya district. The opium revenue increased by Rs. 4,180. The total revenue derived from stamps amounted to Rs. 22,56,010 against Rs. 21,37,468 in 1895-96. The increase was largest in court-fees and non-judicial impressed stamps. Prosecutions under the Stamp Act numbered 31 only against 142 in the previous year. This large decrease, notably in Saran, has not been explained. The income-tax demand slightly increased and collections improved,

the standard of 95 per cent. being reached in all districts.

16. Monetary arrangements.—The expectation that the extensive circulation of Government copper coin during the famine relief operations would help to displace the Lohia and Gorakhpuri pice which circulate in the Division was not fulfilled, and the Commissioner is of opinion that the provisions of the

Metal Tokens Act have had no perceptible effect.

17. Railways and other Public Works.—Land acquisition proceedings were in progress on the Moghalsarai-Gaya Railway, and the earthwork in the Gaya district of the South Bihar Railway was nearly completed. The construction of the line from Hajipur to Katihar viá Begumsarai was started, and two new projects in the Champaran district surveyed for lines from Bettiah to Bagaha via Shikarpur and from Bairagnia to Shikarpur. Progress was made in the construction of the Segoulie-Raksaul lines, while in Darbhanga earthwork on the Sakri-Jainagar line was commenced during the year and has been almost completed since its close.

Canal irrigation .- There was a large increase in the area irrigated from the Sone Canals, which amounted to 522,143 acres, as compared with 369,727 in 1895-96. The collections amounted to Rs. 9,58,925, or 99.02 per cent. of the demand, against Rs. 6,69,045 in the previous year, and the results generally are, as the Commissioner remarks, extremely creditable to the Superintending Engineer, Mr. Buckley, and his subordinates, and to the Deputy Collector Maulvi Syed Nasir-ud-din. The area irrigated from the Madhubani Canal in the Champaran district increased similarly from 3,919 acres in 1895-96

19. Communications. - There was a decrease in expenditure of the District Boards in the Division under the head of "Public Works" of more than a lakh and a half, as many works provided for in the budgets had to give way to the claims of famine relief, but it is to be remembered that famine relief

work in many instances took the form of earthwork on roads.

Education.—The total number of schools in the Division decreased from 6,591 in the previous year to 6,431, but the Lieutenant-Governor notices with pleasure that, notwithstanding a falling off in the number of pupils in some parts owing to scarcity, the aggregate number of pupils in the Division rose from

176,107 to 178,011. The proportion of boys attending school to those of a school-going age increased from 15.3 to 15.5 per cent., varying from 31.2 per cent. in Patna to 11.3 in Champaran. There was a decrease in the number both of girls' schools and of pupils. The expenditure by District Boards on account of primary education was somewhat less than in the preceding year, amounting to 9.7 per cent. of their total income as against 10.9 per cent. The proportion was lowest in Darbhanga (7.6) and Shahabad (8.8). The proportionate tion was lowest in Darbhanga (7.6) and Shahabad (8.8). expenditure by Municipalities was 3.6 per cent., as in 1895-96.
21. Dispensaries and Hospitals.—Two new dispensaries were opened in the

Division during the year, making a total of 61. Their aggregate income amounted to Rs. 1,87,748, of which 46.1 per cent. was derived from subscriptions: 3.8 per cent. of the population were treated as out-patients, the total number of out-door patients being less than in the preceding year, though

on the other hand the number of in door patients increased.

22. Local Self-Government Institutions.—The municipal general election was held on 13th March 1897. The number of municipalities remained The total receipts rose from Rs. 6,30,655 to Rs. 6,48,811, and the expenditure from Rs. 6,19,874 to Rs. 6,86,914, but the receipts include a loan of Rs. 40,000 taken by the Darbhanga Municipality, and the expenditure, an investment by the Patna Municipality of Rs. 50,000, the balance of a loan.

The want of a scheme for flushing the drains of Patna town has been seriously felt, and satisfactory experiments have been carried out with the view of obtaining the necessary water supply. The Municipality of Arrah is still unable to supply its pressing wants of drainage and conservancy for want of funds. Owing to the incompetence of the Chapra Municipality, the condition of the town has become most insanitary, but it is hoped that there will be an improvement under the new Commissioners, who have elected the Magistrate as Chairman. The affairs of the Darbhanga Municipality are in extreme disorder which it will take time to remedy.

The Commissioner reports that the District and Local Boards worked smooth-Their total income amounted to Rs. 16,73,820 as against Rs. 16,94,495 in 1895-96, but the expenditure rose from Rs. 16,80,144 in 1895-96 to Rs. 18,24,186. The increase is largest in the Darbhanga, Musaffarpur and

Saran districts, and is due to the expenditure on famine relief.

23. Employment of Muhammadans.—As in the previous year, the Muhammadans who number only 11.32 per cent. of the total population held more than that proportion of appointments of all classes. The percentage of such appointments held by them was 30.9 against 31.3 in 1895-96. The decrease was accidental, and was in the class of menial appointments only.

24. Post Offices and Telegraphs.—There has been an increase of 77,127 in the number of money-orders paid in the Division and of nearly ten lakhs in amount. The increase, notably in Saran, Shahabad and Gaya, is attributed to the home remittances of absentees who had emigrated in larger numbers than

usual on account of the scarcity.

25. State of Public Feeling .- Public attention throughout the season was concentrated on the prospects of the crops and the price of food. The Commissioner observes that, while ordinarily well-informed Native gentlemen appeared ignorant of the relief organisation beyond their immediate neighbourhood,

the masses generally appreciated the efforts of Government on their behalf.

26. Conduct of Zamindars.—The Commissioner draws attention to the generally reported fact that the ordinary native zamindars of the Division during the time of scarcity did little for the benefit and protection of their raiyats. He adds, however, that as they paid their revenue and cesses with punctuality, most of them found it difficult to meet their obligations, and had little left for benevolence. A conspicuous exception was the Maharaja of Darbhanga, who has expended money most freely in importing grain, making advances and organizing both relief works and gratuitous relief. The Court of Wards, who assumed charge of the Hatwa Estate on the death of the Maharaja, also incurred large expenditure on relief. The Commissioner observes that the Indigo Planters have as a body shown great liberality to their tenants and have rendered much assistance to Government in the administration of relief.

# SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897. 4729

27. Famine Relief.—The Commissioner has given an interesting summary of the famine relief operations conducted during the year. The Lieutenant-Governor has already placed on record his high appreciation of the manner in which the relief operations have been conducted in the Patna Division, and the Government of India have expressed their hearty concurrence in his opinion. As a separate final report will be submitted on the whole course of relief operations in the Province, and the bulk of relief operations did not come within the year under review, it is not necessary to deal with the matter here at greater length.

28. The thanks of the Lieutenant-Governor are due to Mr. Bourdillon for his able administration of the Division during a year of exceptional difficulty and for his clear and concise report from which extracts are published for general information. Mr. Stevens desires also to thank the Collectors and the other officials for the diligent and generally efficient discharge of their ordinary

duties notwithstanding the heavy pressure of famine work.

By order of the Lieutenant-Governor of Bengal,

M. FINUCANE,
Secretary to the Govt. of Bengul.

Extracts from the Annual General Administration Report of the Patna Division for the year 1896-97.

### III .- WEATHER AND CROPS.

17. This was the one subject which, throughout the greater part of the year has occupied the careful attention of all Revenue officers in the Division. The following figures give the rainfall at each Sadar station month by month, as compared with the normal fall and the totals for 1895-96.

Rainfall, 1896-97.

Mari			PAT	NA.	GAT	TA.	SHAHA	ABAD.	SARA	AN.	Снамр	ABAN.	MTEAPP	ARPUB.	DARBI	HANGA.		PATNA VISIO
Mon	TH.		Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	
1	1		3	8	4	5	6	7	8	8	36	11	12	13	14	18	16	1
pril	1896		Nil	0.36	Nil	0.12	Nil	0.15	0.03	0.30	Nil	0.25	Nil	0.28	0.03	0.20	i areg	e
lay			0.79	2*00	0.52	1'45	0:28	1*03	079	1.77	1.65	2106	2:67	2123	100	2153	0.000	
lune	**		7.19	6.88	8-34	5160	6.78	5-47	2164	6794	6104	10.15	9:39	7*40	8-11	7'41	5.74	
July .	**		5-97	12:20	10.44	12:11	9-69	11.00	8.78	19.14	10.22	13.76	18°95	12.20		12:47	from	1
August			10.02	11.52	10*91	11'84	10*44	12:26	9.76	10.80	9.40	13.55	11*32	11:15	10.03	12:91	. Artic	1
September			3.70	7.09	3,83	6*45	2:30	6.83	1.38	7:60	2.33	9:50	2.03	7-57	6*21	9'91	ā.# <del>5</del>	
Detober	4.5		Nii	2.52	Nil	2:31	Nil	2.87	2611	3149	Nil	3131	Nil	2164	0.03	210	0.04	1
November	19	***	0.21	0-22	0*71	0.53	0°87	0.35	0.00	0.58	0.04	0.12	0°16	0.13	0.47	0.11	eh:30	-
December	01	a@0	0*29	0108	0*44	0.18	0-89	0.28	0:47	0.15	0.20	0.10	0°20	0.00	0.18	0.08	0.36	1
January	1897		0107	0°65	0.00	0.64	0.02	0.67	0.13	0'72	0.42	0.73	0109	074	0:16	0.78	0.12	-
Pebruary	10	001	0 84	0.63	1.53	0.63	1*87	0°54	0.20	0.21	0.13	0:49	0.47	0.47	0.88	0*65	0°50	, 1
March	9.0		0.08	0*42	0*90	0180		0'41	0*84	6180	1168	0148	1794	0*43	1:59	0:40	0:81	
Total for 18	896-97	001	33'37	44-75	37'26	42'09	23.13	43'46	23'90	44'94	30.00	6510	47'22	45'70	24103	40:74	27:16	-
Total for 1	1995-98		36 31	42'84	32.73	48 16	39165	41'85	44147	64155	59'33	40135	48168	46109	42.78	47'86	43'18	

The figures really tell their own tale, and I need not treat the well-worn subject at great length. The cold weather rains of 1895-96 were very short, and, taking the Division as a whole, they averaged only 0.17 of an inch, instead of an inch and-a-half, so that the rabi was a poor crop.

18. In 1896-97 the rains were very late, not commencing till the last week of June, though there were light showers in May; the first burst was followed by very heavy rain early in July, and then by two long periods of drought, lasting till the middle of August and the middle of September, respectively; after the latter date no rain fell till the time of the Sonepur camp (November 22nd) when there was a fall, which was heavy only in South Bihar and along the north bank of the Ganges. During the cold weather scattered showers fell from time to time, and there were substantial falls in Christmas week, on the 10th, 11th and 12th of February, on the 22nd, 23rd and 24th

March, and again on the 28th and 30th of the same month. This rain was of inestimable value in encouraging the raiyats, in refreshing the rabi, and in enabling catch crops to be grown such as alua and china.

19. The effect of weather such as that just described, which was characterised by rainfall ill-distributed as well as insufficient, was to produce floods at first (especially in Muzaffarpur) which did a good deal of damage to the bhadoi: the long intervals of drought scorched much of what had escaped the floods, and left the rice seedlings to wither in the seed beds or in the fields where they had been transplanted. Over a large area there was no transplantation of rice at all, and the complete absence of the rains from the middle of September to the end of November, destroyed a large proportion of what had been transplanted. Moreover, there was not sufficient moisture for sowing the rabi on the uplands, and although much low land, ordinarily too wet for rabi, was sown, yet even so the usual area under this crop was much curtailed. Where the rabi had been sown, the frequent showers during the cold weather kept it alive, and the winter crops turned out much better than had been at first expected. The rahar and the mustard were exceptionally fine. The outturn of all three crops in each district for the year have been estimated as follows by the Director of Land Records, following the reports of district officers:—

District		Bhadoi.	Aghani.	Rabi.
1		2	8	4
Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga	000	10 12 7 6 8 51 101	10½ 8 4 1½ 3½ 8 5	113 16 9 111 113 12 14;

20. As the proportion borne by each crop to the whole crops of the district varies a great deal from district to district, the above figures do not give a fair idea of the relative loss of the whole year's crops. Speaking very generally, however, it may be said that the deficiency in each district on the normal harvests of the year was much as follows:—Patna and Gaya one-sixth, Shahabad one-fourth, Saran one-third, Muzaffarpur two-fifths, and Champaran and Darbhanga one-half. The deficiency has been met partly by large importations, partly by the production of hoarded stocks, and partly by spontaneous abstinence and reduction in consumption.

21. For the poppy the year was not unfavourable. In Patna the crop was nearly up to the average: in Gaya it was a little less than in 1895-96, which was a very good year, but a good deal more than in 1894-95: in Shahabad the crop is returned as representing 14 annas: for Saran no estimate in annas is given by the Collector, but the produce was rather more than in the previous year, and much less than in 1894-95, probably a 10-anna crop: in Champaran the area sown was much smaller than usual, and the result very poor, only 2,361 maunds being produced against 4,025 in 1895-96 and 5,318 in 1894-95. The Collector of Muzaffarpur does not notice the subject, while the Collector of Darbhanga says that in his district the crop was up to a full average. On the whole, it may be said that the crop was not up to the average, owing to want of moisture at first, so that poppy grown on unirrigated lands came to little. In South Bihar, where the rainfall was better and well irrigation is largely practised, the crop was somewhat better than it was north of the Ganges.

The general statistical results for the Division are given in the following table:—

				PATMENTS TO	CULTIVATORS—		
Season.	Betimated produce.	Actual outturn.	On account of opium.	On account of leaves.	On account of trash.	Total.	REMARKS.
1	9	8	6	8	6	7	
1894-95 sa. 1895-96 sa. 1895-97 sa.	Mds. 55,231 26,424 28,430	Mds. s. ch. 30,134 14 52 27,804 30 66° 26,115 35 983	Ra. A. P. 81.60,000 0 0 0 74.40,000 0 0 0 67.20,000 0 0 5	Rs. A. P. 86,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B.s. A. P. 0,575 0 0 6,575 0 0† 8,035 0 0	Ba. A. P. 82.22,375 0 0 0 75.05,075 0 0 07.88,095 0 0	Gross produce ascertained at weighmonts tained at weighmonts estimate estimate calculated on 31,00 maunds damdetts opium, en 8,00 maunds trash. 3 Gross produce ascertained at weighmout a tained at weighmout a calculated on 25,000 maunds damdett opium, en 9,000 maunds lawes, and on 15,000 maunds lawes, and on 15,000 maunds trash.

22. At one time it looked as if the season of 1896-97 would be an extra ordinarily bad one for indigo, but although the early drought prevented the satisfactory growth of the plant, yet the heavy rain early in July followed by brilliant sunshine completely altered the prospects of the crop and a fairly good outturn was secured especially in Champaran and Darbhanga. Second cuttings were in many cases better than the first cuttings.

### V .- MATERIAL CONDITION OF THE PEOPLE.

28. In my report last year I stated that, in the absence of great calamities, there was little difference in the condition of the people from one year to another. This year the scarcity which has overtaken the Division has of course greatly reduced the material condition of the masses: the failure of food crops noticed in paragraph 19 above, and the rapid rise of prices since October last over the whole of Northern India, have necessarily fallen very heavily on so poor and so dense a population as that which inhabits the Patna Division, and large numbers of them have been driven to seek gratuitous relief, and to go on to relief works. On the 5th June 1897, when the numbers on relief of all kinds was at its highest, the total was 733,850, or 9.7 per cent., of the population of the affected area, but it need hardly be said that in so widespread a calamity the whole population suffer. On the other hand it must be remembered that for the comparatively few who have had good crops, especially the cultivators of South Bihar, the high prices at which their surplus produce was sold brought them substantial profits, unless indeed it was already hypothecated to the mahajans, as it undoubtedly was in many cases. The famine relief operations, however, seem to establish two main points in connection with the material condition of the people, which are these: firstly, that about 3 per cent. of the population are always on the verge of starvation, and secondly, that much more grain is stored by the agricultural population than is generally supposed. The first point is proved by the rapidity with which the figures for gratuitous relief mounted to a certain level as soon as the local organization for relief was complete, coupled with the fact that all who were in receipt of gratuitous relief were found by all observers to be in absolute need of it. The second point is established by the circumstance that though imports of grain have been large, they have been quite insufficient to make up the deficiency between the outturn of the present year, and that which the population, according to a very moderate calculation, require for their support: as, however, there have been few or no cases of death from starvation, it is clear that the greater part of the unexplained balance must have been in the hands of the people themselves and of the local greater dealers and of the local greater dealers. and of the local grain-dealers and zamindars. Another point is the remarkable

manner in which the poorer classes of townsfolk, and the genteel poor everywhere, have managed to weather the storm with very little outside assistance.

# VI.-EMIGRATION AND IMMIGRATION.

29. The following table shows the number of emigrants registered during the last two years in the several districts of this Division:—

NAME OF DIS	TDIOT	For the	colonies.	For the te	a districts
	18101	1895-96.	1896-97.	1895-96.	1896-97
1		2	3	4	5
			•		
Patna	•••	593	355		***
Gaya	•••	***	***	381	720
Shahabad	•••	1,234	1,482	484	114
Saran	• • •	126	160		400
Champaran	•••	8	***	•••	8 4 g
Muzaffarpur		• • •	***	•••	4 6 4
Darbhanga	•••	***	•••	***	
Total		1,961	1,997	865	834

30. The decrease in Patna is reported to be due to the Emigration Agent not requiring coolies for embarkation to the colonies, and to recruitment thus ceasing for a time. In Gaya the Magistrate says no exact statistics are available in regard to free emigration to the tea districts, but the enquiries which have been made indicate that, as compared with the preceding year, it was of small moment, the number so recruited being given as only 70, including 16 dependents, against 101 in the preceding year. The falling off may account for the increase in registered emigration. The increase in colonial emigration in Shahabad may be ascribed to impending scarcity and prices, and the decrease in inland emigration is partly due to the small number of garden sardars who worked in the district during the year. Of the 160 emigrants registered for the colonies in Saran, only 32 belonged to the Saran district, and the rest were from the North-Western Provinces and Oudh.

31. The number of coolies recruited from the North-Western Provinces and the Central Provinces is said to exceed those recruited from Bihar. My attention was drawn to this question in paragraph 6 of the Government Resolution on my last year's report, in which it was asked why the number of registered emigrants from Bihar is decreasing, and why it was that the great majority of emigrants who pass through Calcutta for the tea districts and the colonies are natives of the North-Western Provinces and of the Central Provinces, where the population is neither so dense nor so poor as in Bihar. It is difficult to assign any specific reason for the decrease in registered emigration from Bihar and for an increase from the North-Western Provinces and the Central Provinces; but from enquiries made by me it appears that the following are some of the reasons:—

(a) The local agents give preference to the people of the North-Western Provinces and the Central Provinces over the Biharis, as they are of better physique.

- (b) Closer supervision is said to be kept over the coolie depôts in Bihar than in the other provinces.
- (c) The indigo industry in North Bihar employs a larger number of the emigrating classes.
- (d) An annual exodus from the three frontier districts to the Nipal Terai at the time of dhan cutting also gives employment to many, not to speak of the large numbers who go annually to Bengal for the cold weather from Saran, Muzaffarpur and Shahabad.
- (e) In Bihar there are three harvests—the aghani, bhadoi, and rabi—and though the population is denser in Bihar, the proportion of land under cultivation is larger than in the North-Western Provinces.
- (f) Much depends on custom and the relative characteristics of the people who, in Bihar, generally prefer work nearer home.
- There was free emigration from the Jugdispur Estate in Shahabad,
- belonging to Messre. Mylne & Co., to their grant in Burma. 33. There were no complaints during the year in regard to the system of recruiting. The coolie depôts in the different districts were regularly inspected. In Shahabad five depots were summarily closed, as the District Magistrate found they did not comply with the rules laid down by Government as regards ventilation and space for the coolies. In an inland emigration depot at Arrah there were two cases of cholera, but the patients were provided with medical treatment and recovered. The agent was, however, prosecuted for not reporting the outbreak of the disease, and was convicted and sentenced to pay a fine of Rs. 100, and the depôt was closed, as it was in a most insanitary condition. It is reported that on the whole the condition of the coolie depôts
- in the Division is satisfactory. 34. There is practically no immigration into this Division, but in this particular year there has been a good deal of wandering of hungry people in search of work or relief from the North-Western Provinces into Champaran and Sara

### VII.-PRICES OF FOOD AND LABOUR.

35. This subject, which in most years is one of commonplace interest, has this year been invested with absorbing importance. Appendix III furnishes figures showing the prices of the common food-grains and salt at the end of the last three years, and a glance at that will show how wide the difference is between prices in March 1897 and those in the two previous years. I also give here a statement which shows the price of common rice, wheat and maize on the last Saturday of each month in the year.

Statment showing the number of seers of common rice, wheat and maize to be purchased for one rupes in the several districts of this Division on the last Saturday of each month in the year 1898-97.

			PATHA.		4	Gaya.		SE	LAGARA	D <sub>0</sub>		SARAH.	
DATE		Common rice.	Whest.	Maizo.	Common rice.	Whoat.	Maixe.	Common rice.	Whest.	Maize.	Common rice.	Whost	Maise.
1		9	8	4	8	0	7	8	. 9	10	11	13	11
May 80 June 37 July 26 August 29 September 30 November 26 December 26 January 30 February 27	oth  oth  oth  oth  oth  oth  oth  oth  oth  oth  oth  oth  oth  oth  oth  oth  oth  oth	20 17) 17 17 14) 12) 9 10 10) 11 10)	16 16 14 14 18 10 9 10 10	12 15	15 15 14 13 12 10 8 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	 9 8 8 8	111 111 111 111 111 111 111 111 111 11	15 15 14 14 12 12 12 12 10 91	13 14 13 13 13 14 9 9 8 8 8 8 9	19 19 12 11	16 16 16 18 11 9 9 9 8 18 8 18 9	11 10 80 9 80 80 81	26 20 18 19 16 18 12 19 11 9- 10

The progress of events is very clearly marked in this table. year opened with normal prices which rose slowly, as is always the case, up till about the end of August, when they usually fall gently again with the incoming of the bhadoi harvest. In 1896 there was no fall in September; on the contrary, owing to the considerable failure of the bhad i, the rise continued: early in October, when the absence of the hathiya rains made the loss of the aghani rice a certainty, prices rose suddenly everywhere, partly because cultivators held on to their stocks, partly because brokers began buying largely for export to the North-Western Provinces, and partly because it was not exactly known what stocks were in the districts. In November there was in many cases a slight recovery, and since that time, thanks to the good prospects of the rati and to large importations, the price of grain, though for the most part rising gently, has shown no sudden oscillations, and panic has not reappeared. close of the year the same steadiness has prevailed, and I have no doubt that prices will rise gradually till the end of August, when, if a good bhadoi is reaped, they should grow easier, though there can hardly be a return to normal conditions till the aghani rice is cut in November. It will be observed that prices at the end of the year were from 80 to 100 per cent. above what they were at its commencement, -a fact which is eloquent of the distress caused to all who live on fixed incomes or on charity, or who are paid in cash for their labour.

37. The cash wages of labour show little signs of increase. The vast majority of labour in this Division, i.e., almost all of an agricultural character, is paid in kind, and immemorial tradition has fixed the amount thereof, so that the high prices of grain hit less hard than might have been expected a considerable section of the population who either live on their stores or are paid wages in kind. The wages paid on relief works were based on the current prices of the commoner kinds of grain, so as to allow each person who did a fair day's work to earn enough to support life on some cheap, coarse grain. In Patna, and doubtless in other large towns, the coolies and daily labourers stood out for a small increase in wage to meet the increased cost of food, and for some months all of the worst paid Government servants, and most servants in private employ, have been receiving some kind of compensation for dearness of grain.

### IX.—TRADE AND COMMERCE.

43. The statistics under this head for the year under review have been compiled in accordance with the instructions contained in Statistical Department circular No. 1 of the 20th April 1896. Orders have since been received (viz. Statistical Department circular No. 103 of the 22nd July 1897) requesting that the trade statistics of the Division may be compiled in the form used by the Commissioner of Burdwan in his Annual Report for 1895-96, but I regret to say that these orders arrived too late for effect to be given them this year; they

will be carried out when my next report is submitted. It is to be noted further that in all the statistics in this Chapter traffic between different districts in this Division has been climinated. The result is that the totals represent the foreign trade of the Division as a whole, but the details for districts do not represent the total trade for each district, and therefore they will not tally with district trade statistics to be found elsewhere, and by so much they fail to show the real trade of each district.

44. A statement now given as No. XXXV in the appendix, in accordance with Government orders on my report of last year, shows the up and down import and export traffic in 24 chief articles of commerce, which has been recorded in the several districts of the Division as carried(1) by roil, (2) along the Nadia rivers, and (3) by canal during the year. They also include the trade with Calcutta, but not that with Nepal, which is shown separately below. In the similar statement in last year's report (paragraph 76) the figures for Calcutta trade were wrongly omitted; and in order to make comparison easy, I have corrected the error and have reproduced the total figures for 1895-96 at the end of the statement.

45. An abstract of this trade, district by district, is shown below in thousands of maunds:-

		Імго	B7	Expo	BT-	Ton	PAE.	The same of
District.		Up.	Down.	Up.	Down.	Imports.	Exports	Total trad
1		9	8	4	6	6	7	8
		Mds.	Mds.	Mds.	Mdz.	Mds.	Mds.	Mds.
Patna Saya Shahabad Saran Chemparan	000	8°,46 6,48 12,69 14,21 6,88	2,17 66 46 3,18 9	17,38 2,35 6,53 1,66 72 92	16,86 1,88 3.81 2,26 2,28 8,70	35,63 6,69 13.15 17,34 6,97 12,59	34,24 4,38 10,84 3,81 3,00 4,63	69,87 11,02 23,49 21,16 8,97 17,21
Muzaffarpur Darbhanga Total	•••	12,19 17,03	7,19	2,87	89,33	17,31	71,56	28,52

Taking the Division as a whole, its trade amounted during the year to 1,80,23,000 maunds, of which imports were 1,08,68,000 maunds and exports 71,55,000. Looking at these figures from another point of view, it appears that the dealings of the Division with the North-Western Provinces and the west of India (columns 3 and 4) are represented by 39,60,000 maunds and with Calcutta, Bengal, and the east (columns 2 and 5) by 1,40,63,000 maunds. Patna, as usual, shows the largest trade and Champaran the smallest.

46. The rignificance of these figures, however, is not fully apparent till they are placed beside those of the previous year. Such a comparison will show what the double effect of the scarcity has been on the trade of the Division, chiefly of course through the medium of food-grains. The statement in the

		1805-96,	1896-97.	Difference.
1		2	3	4
lmports—	1	Mda,	Más.	Mda.
Up Down	***	96,80,613 7,00,467	1,01,40,843 7,19,204	+4,00,280 +18,787
Total		1,03,81,080	1,08,69,047	+ 4,87,967
Exports—				
Lown	90-	15,72,625 83,36,595	<b>37</b> ,31,587 <b>3</b> 0,22,580	+ 16,49,002 + 5,85,888
Total		40,19,220	71,84,167	+ 22,84,747
Total trade Net trade	001	1,53,90,300 1+84,61,860	1.80,28,214 I+87,14,880	+ 27,22,914

margin shows how the totals of the two years compare together. It will be seen that the imports increased by 4,87,967 maunds, or 4.7 per cent., which was nearly all in the up traffic, i.e., that from the east. Exports, on the other hand, though as before less than the imports, increased in a much greater ratio to the extent of 22,34,947 maunds, equivalent to 43.4 per cent. The increase is chiefly in the up exports, i.e., those going to the west, which more than doubled themselves. The net result of the year's trade is that in the Patna Division the surplus of imports was in 1896-97

less by 17,46,980 maunds than it was in 1895-96, but the volume of trade increased by 27,22,914 maunds.

47. How greatly these figures are due to the traffic in food-grains I now proceed to show. Turning first to total imports, we find that whereas in 1895-96 out of the total imports (1,03,81,080 maunds), only 52,38,972 maunds, or 50.46 per cent., were food-grains; in 1896-97 out of a total import of 1,08,69,047 maunds they account for as much as 82,73,222 maunds, or 76.11 per cent. Next, as to exports, in 1895-96 the total was 49,19,220 maunds, of which 17,63,644, or 35.85 per cent., were food-grains. In 1896-97 the exports increased to 71,54,167, maunds or by 45.43 per cent.; and of this amount 34,90,474 maunds were foodgrains, equivalent to 48.78 per cent. of the whole. Further information on this subject is given by the statement below, which shows in what grains the greatest fluctuations occurred, and in what direction both imports and exports travelled :-

Statement comparing the Food-grain traffic in 1895-96 and 1896-97 (in thousands of maunds).

			Імро	PTO-					Expo	275-		
KIND OF GRAIN.	U	р.	Do	wn.	To	tal.	U	p.	Do	wn.	Total	
	1895-96	1896-97.	1896-96	1896-97.	1895-96.	1896-97	1895-96.	1898-97.	1995 96.	1896-97.	1895-96.	1806-9
1	2	8	4	6	6	7	8	9	10	11	12	13
y at a and pulse r food-grains	 15,57 8,30 1,50 67 8,62	26,01 5,66 38 1,16 7,85	77 6 70 26 1,24	41 4 60 5 80	16,34 8,3 i 2,20 98 10,96	26,42 5,60 88 1,21 8,15	1,17 18 52 3,18 3,61	2,98 54 47 15,68 7,25	40 1 38 6,82 1,37	27 6 73 5,56 1,44	1,68 19 90 9,96 4,98	3,26 59 1,20 31,14 8,69
Total	 21,67	40,46	3,03	1,81	27,79	42,27	8,62	8,62	9,00	8,07	17,63	34,90

It is clear that in the year under notice there was an immense increase in exportation to the west, the traffic more than trebling itself, and this great advance occurred chiefly under the head of gram and pulses: exportation to Bengal, on the other hand, fell off. Obviously this represents large despatches to the North-Western Provinces before scarcity was anticipated or declared in Bihar. On the other hand, the imports did not increase in early so great a ratio, the main advance being in rice and paddy from the east, and in other food grains, which comprise the small millets and the cheaper kinds of grain. The down imports, i.e., those from the west, fell off greatly as was expected.

48. Into district figures I do not consider it necessary to go at any length, partly because this is a divisional report, partly because the review could not be complete since inter-district figures are not given in the foregoing tables, and partly because I am unable, for reasons stated above, to institute a comparison between the figures of 1896-97 and those of 1895-96 without wholly recompiling the district figures for the earlier year. I give, however, the following table, which shows the figures for some of the principal articles of commerce district

by district:-

thousands of maunds.

			BIO	BIOS AND PADDY.							WHEAT						GRAM	AND PULAB	ILSB.		1
Distraces.		IMPORTS.			Exports.		Bulance or (+) or		I MIPORTE.	100		BE PORTS.		Balance		Ihrough.			Reposition.		Salance r (+) or
	ď	Вочп.	Total.	Up.	Down.	Total.	district.	Up.	Down.	Total.	Cp.	Down.	Total	against () the district.	Up.	Down.	Total.	Up	Down. To	Total.	(-) the
grand	64	67	•	20	•	-	80	00	2	11	52	\$2	2	16	36	11	A	2	ĝ	5	89
Patna Gaya Gaya Shahabad Narah Champaran Durbhanga		2000	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	24 电路路线器	9978	\$\$\$\$\$\$\$	+   ++++ 4	£		Sant -	8 mg mm : 6	0 20 4 00 -	2 2 2 2 2 2 3 3 3 3 4 3 4 3 4 3 4 3 4 3	++1+++	88 5-11 8 8 8 5.		**************************************	3 4 8 5 5 8 9 4 8	8 80-148		\$685 - 58 5
Total	28,56	\$	00,62	3,51	8	3.84	+ 25,16	26	3	8	\$	700	13.21	28	4,53	•	83	15.88	5,55	21,13	16,74
			Ora	OTHER POOD-GRAINS.	eraint.			- ··	,		Erkssed	.D.					and the same of th	Averand, strep	Ġ		
Patna Geyra Shabebed Saran Champaran Musaffarpur Durbhanga	2223722	# P	25.22.25	F. 688482	8 H-400 H	2,5555	+ +++ 825 08 - 88	7	8 8 4	5 8 72		81111194 50584758	8 6 9 4 6 5 4 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20211111 2022428			• • •	-	#ESERBEI	#252224E	111111
Total	7.86	2	6,15	7,26	1,44	8,70	188	ıı	1,57	3,68	4	21,00	89,00	- 10.93	14	14	8	н	3	80	-3,38
			200	Sroam, ru'n	creaman.					TOBACCO.		UBHAHUBACTURED.	ď		*	Cox	Corto e fince-code	<b>-</b> 0000	(BULOFRAS).		
Patus		28 2 2	28-2 30	2634	****	6522- 8	17.7+1+1 3482-32		-	<b>6.</b> — — — — — — — — — — — — — — — — — — —	8 - 48	11.06	22.00	11 11 17 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	2265128		2322728	**************************************	111111111111111111111111111111111111111		8882858 ++++++
lato		manada		2,90	8,3	21,0	4,09	•	69	=	83	1,69	3,91	08 4	38,8		38,6	П	135	2	45,70
	,		Corror	Cortor First Goods	ope (Indian).						BALL	ئم					N.	Kradery B	061.		
Fates Gava Gava Gava Saren Champaren Maradfarpur Dai bhungaren Total		**************************************	MOINCHEN 0			9 1 1	1 + ++++ +	# 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80-0	25.22 25.22 25.22 25.23	1 000 000 1 1 1 00	9 41 00	2 2	+3.16 +2.03 +2.71 +2.07 +1.30 +3.53 +3.53 +3.65 +3.65	2,5 1 4 2,5 1 1 2 2,5 1 2 2,5 1 1 2 2,5 1 1 2 2,5 1 2 2,5 1 1 2 2,5 1 2	***************************************	E342882				++++++ 

49. Food-grains.—As regards food-grains, it is only necessary to repeat that early in the year grain was largely exported, and that in the last three months of the year a great deal was imported for the North Bihar districts. In further proof of

			NET IM		ORTS IN PAVOU	E OF THE	
Distr	uor.		April 1895 to September 1895,	October 1898 to March 1896,	April 1896 to September 1896,	October 1896 to March 1867.	REMARES
1			2	8	4	5	6
Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga	Potal	000 000 000 000 000 000	Mds. I 49,571 E 1,17,979 I 280,354 I 65,190 R 8,831 E 24,379 E 64,570 I 1,29,347	Mds.  E 6,81,447  E 18,149  I 78,898  I 6,171  E 7,220  E 14,755  E 90,174	Mds. E 10,54,281 E 69,920 E 2,83,467 F 29,840 E 5,691 E 6,39 E 40,725	Mds. E 5,51,108 I 12,651 I 17,291 I 7,47,698 I 80,163 I 3,29,195 I 31,005 I 6,66,885	

N.B.—Excess export in 1895-96 = Mda, 7,25,181—1,29,347 = Mda, 5,95,834,
Ditto ditto 1896-97 = Mda, 14,20,472—6,66,885 = Mda, 7,62,587,

this fact, I give in the margin figures obtained from the Railway Companies, which show most graphically the movements of the grain trade during the four last half-years. To begin with, in the half-year ending with September 1895 the imports were a lakh and a

quarter of maunds; in the corresponding period of 1896 the imports had ceased and the exports were 14½ lakhs, the measure of the difference between the two periods being thus 16½ lakhs of maunds; so, again, in the second-half of the year 1895-96 ending with 31st March 1896, the Division showed an excess of exports amounting to 7½ lakhs, whereas in the second half of the year 1896-97 these exports had all changed into imports, and the excess in favour of imports was now 6¾ lakhs, the measure of difference being nearly 14 lakhs. It is quite clear that during the greater part of the 12 months from 1st October 1895 to 30th September 1896, grain was pouring out of the Division mostly no doubt to the westward; the excess of exports over imports being 21,54,653 maunds. Then when it became clear that the crops in Behar were a failure, the tide turned, and during the last half of the year under review, viz., October 1896 to March 1897, a great excess of imports has been received equal, as above stated, to 6¾ lakhs of maunds. When the report for the current year 1897-98 comes to be written, it will be found that there has been an enormous excess of imports for the period October 1896 to October 1897.

50. Turning to district figures, the statement above shows that Patna almost throughout has been a great exporting district, much of its imported grain being received by heat and road, so that it escapes registration as it comes into the great central emporium. Saran has consistently imported more than it exported, as it always does, but the extent of its need may be judged by the following figures for net imports during the four successive half-years of the statement—65,190, 8,171, 29,840, and 7,47,688. In the other districts it will be noticed that though there is a great difference in the volume of the trade, the history of the traffic is the same, i.e., considerable exports in the first half-year, a falling off in the second, a large rise in the third, and then a complete change to large

imports in the fourth period.

51. Other goods.—In other branches of trade the traffic figures are not so remarkable. Taking imports first, there has been a larger increase under gunny-bags, probably for packing grain, in linseed, which seems to have been almost all exported again, and in unrefined sugar. On the other hand, there was a large decrease in the imports of mustard seed, unmanufactured tobacco, and coal and coke, while there was a smaller shrinkage under cotton piece-goods, salt and kerosine oil. Under exports there has been a large rise under linseed, the whole of the imported seed having apparently been exported with much more besides: in mustard seed there has been a heavy decline corresponding to some extent with the decline in imports; sugar has also greatly fallen off in spite of the increase in exports: tobacco has largely increased, a somewhat remarkable result, since it was feared that the trade with the North-Western Provinces would be seriously checked by the scarcity prevailing there. On the contrary, the exports to the west have gone from 1,29,916 maunds in 1895-96 to 2,21,177 maunds in 1896-97. Salt has been stationary, and coal and coke have fallen off by about one-third.

52. River-borne traffic between Bihar and the Nadia rivers.—This appears to have been entirely killed by the scarcity. In 1895-96 the imports by this route were 89,350 maunds, and the exports 3,80,466 maunds. For 1896-97 the figures are—imports 8,101 maunds and exports 2,102 maunds.

53. Trade with Calcutta.—The subjoined statements exhibit separately the statistics of export and import trade between Calcutta and the districts of this Division conviced by all routes rail road river and canal during the year

Division carried by all routes, rail, road, river and canal during the year 1896-97:-

		1						Foop-a	RAINS.							
		-		Dine at	d paddy.						_	1				
WHENC		R	lioo.		ddy.	T	otal in	Who	at.		n and		her fo		Т	otal,
		1895-96	1896-97	1895-96	1896-97	1895-9	96. 1896-97.	1895-96.	1896-97.	1895 96.	1896-	97. 1895	-96.	1896-97.	1895-96.	1896 5
1	3	8	3	4	5	6	7	8	9	10	11	12		13	16	15
Patna Gnya Shababad Saran Champaran Musaffarpur Darbhanga	000	Mda, 4,440 474 222 44 449 87 95	Mds. 5,570 12 20 17 25 954 576	Mda. 675 124 684	Mds. 885 831	Mda. 4,440 896 99 44 876 87	5,811 12 227 17 25 954	Mds. 11.677 679 2,866 452 1,379 1,369 14,711	Mda. 4,112 844 61,856 4,356 174 3,002 1,492	Mda. 3,51,891 5,805 1,13,258 19,223 11,268 23,931 70,110	1,02,	138 69,5 346 174 8,4 192 12,3 749 2,8	80 1 00 35 54	Mda.,00,665 2,132 4,610 4,269 6,191 3,370	Mds. 4,17,688 7,380 1,24,123 32,054 13,577 27,702 85,472	Mda. 4,72,72 70 1,65.88 12,17 5.21 13,96 42,12
Total		5,611	7,174	1,463	716	6,537	7,622	32,633	74,835	5,75,486	5,09,	108 93,:	240 1	,21,237	7,07,896	7,12,80
		J	IBROUS P	RODUCTS			OIL	EKDS.								
100		Jute,	raw.	Guldy	baga.	Lù	nseed.	Musta	ard seed.	Tea,	India	n.	Cotto	n, raw.	Sil	k, raw.
*		1895-96.	1896-97.	1895-96.	1896-97.	1895-9	06. 1896-97	. 1895-96	. 1896-97	. 1895-9	8. 189	6-97. 181	95-96.	1896-9	7. 1895-9	8. 1896-97
\$ _ <u>\$</u>		16	17	18	19	20	21	22	28	24	2	8	26	27	28	39
Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga	000	Mds. 5,963 972 456 1,420	Mds. 233 291 762	Mde. 10,967 7,315 4,970 7,070 560 2,065 13,013	Mda. 53,724 4,970 6,650 9,205 4,700 5,740 13,020	Mde. 6,93,3 73,8 80,6 2,34,5 1,31,4 1,44,8 3,55,9	51 9,18,30 35 87,319 76 1,09,26 72 1,52,66 67 1,62,85 80 2,63,56	9 2,169 1 10,200 6 8,933 4,148	Mda. 1,10,30 14.64 10,32 22,09 24,07 42,93 1,16,27	3		1 1	ds. 810 21 45 17	Mds. 1,81 10 6: 85 9:	19	
Total		8,814	1,474	45,960	98,009	17,14,6	95 21,61,08	65,569	8,40,65	486		623	940	2,409	25	30
	.			BUGAR.				To	IACCO.							
		Re	fined.		Unrefined		Unmanuf	actured.	Mas	anfactur	d,	Coal ar	ad col	ko.	Indig	(O.
		1895-96,	1896-97	. 1895	-96. 18	96-97.	1895-96.	1896-97.	1896-9	6, 189	6-97.	1895-96	1890	6-97.	995-96.	1896-27.
		80	31	82		83	34	35	36		37	38	3	9	40	41
Patna Gaya Shahabad Suran Champaran Iduxaffarpur Darbhanga	000 000 000 010 010	Mds. 1,312	000	37 49 1	,682 ,583 ,101 ,456 169	fds. 11,469 28,767 59,856 3,420	Mds. 25,614 640 647 641 22 8,760 10,191	Mda. 17,205 300 48 279 7,244 12,668	1 000	52 :10	ds. 3,414 5,428 46 27 1	Mda,	Md		769 13,350 17,873 18,011 14,974	Mde. 256 23 894 10,676 20,373 14,917 9,016
Total		1,95	_			10,850	61,815	37,734	-		9,290	400		-	65,308	46,161

B. - Imports into the Patna Dicision from Calcutta.

			Rice.	P	addy.	W	heat.		ram and	Oth	er food-		Fotal.		COTTON PIECE	-GOODS.	
			1			1,	1							E	ropean.	Iz	idian.
		1895.96.	1896-97.	1895-96.	1896-97.	1895-96.	1896.97.	1695-96.	1896-97.	1895-96.	1896.97.	1895.96.	1996-97.	1895-96.	1896-97.	1895.96.	1898-97.
1		2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17
		Mda.	Mds.	Rs.	Re.	Re.	Re.										
na	<b>0</b> 01	49	83,687	24	18,712	100		6	9,240		763	78	1,12,402	27,63,162	27,01,102	18,586	15,28
	00+	12	8,034	***		***	***	•••	1	***	284	12	8,035	14,21,647	13,69,708	7,979	15,84
hmad		66	23,898	4	3,942	***	***	41	1,136	004	***	111	28,976	83,10,285	31,74,850	11,993	13,88
D.ID		38	2,03,046		4,332	8	100	***	784	800	4,459	46	2,12,621	28,84,770	28,54,811	656	390
mparan	1.0	***	1,06,623		13,326	•••	•••	8	-10-000	2	4,841	10	1,24,790	36,50,508	36,27,103	1,487	310
safarpur	***	34	75,480	***	15,082		400	***	896	***	2,823	34	94,281	27,89,516	26,48,987	4,516	18,665
bhanga	***	***	48,915		4,472	***	***	***	000 000	1	686	1	54,073	40,75,492	35,12,601	3,006	12,471
Total		199	6,49,683	28	59,866	8		54	12,057	3	13,572	592	6,35,178	2,08,95,280	1,98,88,862	48,173	76,800

			Corror	TWIST.		e	alt.					6)
		Europ	ean.	lndia	n.			Kerouit	oil.	Gun	ny-baga,	Banches,
		1895-96.	1896-67.	1695-96.	1896-97.	1895-96.	1896-97.	1895.96.	1896-97.	1895-96.	1896-97.	7
		18	19	20	21	22	23	24	26	26	27	# 28
		Mds.	Mds.	Mds,	Mda.	Mds.	Mda,	Mds,	Mds.	No.	No.	
	84.	2,787	8,647	14,903	9,655	2,70,967	2,27,961	1,21,707	1,04,241	11,48,485	15,47,474	
		460	286	18,537	6,998	1,94,601	1,93,984	31,027	12,504	2,54,205	1,83,750	
abad	***	224	511	12,635	10,162	2,67,400	2,70,170	5,829	5,073	1,74,440	2,43,215	
	***	724	871	2,845	2,756	2,23,823	2,12,474	21,311	11,763	1,78,440	2,25,623	
paran	***	266	7	8,169	4,071	2,07,140	1,90,185	26,940	25,977	1,41,505	2,90,535	
darpur		176	9	1,493	1,236	2,23,644	2,56,012	34,800	86,698	1,96,815	3,22,925	
hanga	-	175	114	10,858	5,939	3,33,628	8,70,992	50,477	49,209	4,01,565	6,25,280	
Potal		4,812	4,945	64,440	40,817	17,21,203	17,21,728	2,92,091	2,45,465	24,95,455	84,38,802	

In previous years the trade with Calcutta in food-grains was so insignificant that it was not inserted in these tables. In the past year this has been completely changed, and they are now given. The import trade in food-grains has already been discussed, and no further comment seems called for here.

54. Trade with Nipal.—The statistics of this trade are given in the

		Imports	from Nepal.	Exports	to Nepal.
	ARTICLES.	1895-96.	1896-97.	1895-96.	1896-97.
	1	2	8	4	5
		Mds.	Mds,	Mds.	Mds.
1. 2. 3. 4. 5.	Rice Paddy Wheat Gram and pulses Other food-grains	6,32,274 50,395 82,880	5,48,357 40,976	2,593 21,0+0 14+ 1,475 4,842	5,157 1,00s
6. 7. 8. 9. 10.	Jute-raw Gunny-bage Linseed Mustard seed Tea, Indian	2.02.955 28,469 424	2,16,708 31,838 2,653	1,864 1,143 246	4,695 50 12 86
12. 13. 14. 15. 16.	Cotton, raw Silk, do Sugar, refined Do., unrefined Tobacco, manufactured Ditto, unmanufactured	***	17,389	1,781 14,512 11,348 28,363	6,122 85,663 7,583 4,615
17.	Indigo	***		***	D-
18.	Cotton piece- Bales	***	460	18,75,812	Ra. 3,26,928
	European Boxes	***		***	Rs.
19.	Ditto   Bales	***	***	16,368	14,597
	Boxes		***		**
0.		***	184	6,639	7,856
21.	Ditto, Indian	***	111	891	319
22.	T*	0.000	• • • •	1,21,320	1,59,574 19,969
24.	Kerosine oil Coal and coke	2,236	***	41,125	13,772
	COM MAN COMY 64.				
	Total	18,96,592	18,17,364	21,52,637	2,65,881

<sup>\*</sup> Omitting the figures for plece-goods.

marginal statement, which is abridged from that given in my last report by the omission of columns for trade with Sikkim and Bhutan, since no such trade is carried on with this Division. Taking the imports from Nipal first, it appears that the total is less than last year by 79,228 maunds, chiefly owing to a large falling off in paddy, and smaller declines under wheat, rice and other food-grains, while on the other hand there is an advance under gram and pulses, linseed, mustard seed, raw cotton, and unmanufactured tobacco. Taking food grains alone, the 16,50,813 imports were 1895-96 maunds in and 15,48,776 maunds in the year under review. The deficiency is attributable to the embargo which was placed by the Nepalese authorities at the end of the year on the exportation of grain, but the figures are far below the truth, for there has undoubtedly been

a very large contraband importation of grain from Nipal all through the last

quarter of the year.

55. In the matter of exports to Nipal, the figures as they stand are complicated by the fact that in 1895-96 the piece-goods traffic was shown by weight and this year by value. As it is by far the largest item in the schedule, the latter is robbed of a good deal of its interest. However, eliminating from both years the figures against articles 18 and 19, we get a total export traffic for 1895-96 of 2,61,462 maunds, and in 1896 97 of 2,65,881 maunds, thus showing a slight rise, which is most noticeable in salt, coal and coke, unrefined sugar and gram and pulses, while there has been a falling off under rice, paddy, other foodgrains, raw cotton, umanufactured tobacco, and kerosine oil.

56. Nothing is said in the district reports especially worthy of notice, except by Mr. Macpherson, who has very carefully reviewed the trade of this district for the year; his remarks are unfortunately too long for quotation, but

they will remain as a useful record for the use of future Collectors.

### XIII-CRIME.

71. The total reported crime of the Division during the year 1896 as compared with the previous year is noted below:—

		1895.	1896.	Variation.
Cognizable offences	•••	31,166	30,056	1,110
Non-cognizable offences	***	19,739	18,157	1,582
Total		50,905	48,213	2,692

# Excluding offences against sanitation, the figures stand thus:

Cognizable Non-cognizable	***	***	1895. 22,278 19,739	1896. 23,099 18,157	Variation. +821 1,592
	Total	***	42,017	41,256	761

These figures indicate (a) a general decrease in the number of reported offences during the year under report, (b) the decrease being noticeable in non-cognizable offences both including and excluding offences against sanitation, and (c) that cognizable crime (reported) shows a satisfactory diminution, but if the sanitary offences are excluded, the total exhibits an increase. This increase is shared more or less by all the districts north of the Ganges, while the three South Gangetic districts show a falling off. It is suggested by some officers that the increase is due to the prevailing high prices of food-grains, but this cause can only have operated during the last 4 or 5 months.

72. The table below shows the classification of cognizable crime for the past two years in the Division as a whole, from which it will be seen that the

increase noticed above occurs chiefly in offences against property :--

CLASS OF OFFENCE.	1895.	1896.	Variation
1	2	3	4
Offences against property  Ditto person  Ditto public tranquillity Other offences (excluding public nuisance cases.)	18,118 1,201 541 2,418	19,218 1,272 530 2,079	+1,100 +71 -11 -339
Total	22,278	28,099	+821

73. The percentage of cases declared false to the total number of cases instituted during the year was 4.6, against 5.4 in the previous year. The number of cases in which prosecutions were instituted was 108 or 7.7 per cent. of the total number of cases declared false, as compared to 116, or 8.3 per cent. in the preceding year; 37 cases ended in conviction. Compensation was awarded under section 560, Criminal Procedure Code, in 103 other cases; this is a ridiculously small number, and it is much to be regretted that more use is not made of this section.

74. It is satisfactory to observe that the general percentage of house-breaking cases not enquired into during the year shows a diminution as compared with the previous four years, viz., 19.8 as against 31.6, 31.1, 41 and 53.5 respectively. In this respect Shahabad shows the best result, only 5.6 per cent. of the cases in this district not having been enquired into; Champaran and next to it Saran exhibit what I consider the poorest result in this direction, 34.9 and 30.3 per cent. respectively having been refused enquiry. On the whole the result shows considerable improvement as compared with the previous year.

75. The result of sessions cases shows a satisfactory improvement, the percentage of convictions for the Division, both in regard to persons and cases, having risen from 55.7 and 71 in 1895 to 69.8 and 76.6 respectively in the year under report. Patna shows the best result and Shahabad the worst.

76. There is a rise of 30 cases in the number of true cases of rioting as compared with the previous year (353 as against 323), but if contrasted with the years 1893, and 1894 the number is smaller. The increase is said to be due to the occurrence of a large number of irrigation disputes which were more numerous and more bitterly contested owing to the want of rain. The bulk of these rioting cases are reported to have been of a petty nature. Thirteen cases arose out of disputes over the growing of indigo, viz., 9 in

Muzaffarpur and 2 in each of the districts of Champaran and Darbhanga—188, or 53.2 per cent. of the cases, ended in conviction: in 257 cases 724 persons were bound down during the year under sections 106 and 107, Criminal Procedure Code.

77. There were 59 true cases of dacoity against 41 in 1895. For this increase of 18 cases Shahabad is chiefly responsible, and all the 14 cases which occurred during the year in that district were attended with the looting of grain due to prevailing high prices of food-grains. The judicial results are not satisfactory, only 11, or 18.6 per cent. of the cases, having resulted in conviction.

78. Cases of robbery increased from 41 in 1895 to 53 in 1896. For this increase Patna and Gaya alone are responsible. It is, however' gratifying to notice that in the four North Gangetic districts and also in Shahabad, where scarcity prevails in a more severe form, this crime shows some diminution. Out of the 53 cases, 25 ended in conviction, and of the 63 persons

brought to trial, 39, or 61.9 per cent., were convicted.

79. The total number of bad livelihood cases increased by 69, viz., from 938 in 1895 to 1,007 in the year of report. Gaya returned the largest number (270) and Darbhanga the fewest (89); 298, or 29.5 per cent., of these cases were tried in the village of the accased, and 668 cases were tried in Court. In this respect Patna and Darbhanga show good results, more than 50 per cent. of the cases in each district having been tried locally, while Champaran comes out badly with only 8.4 per cent. of its cases so tried. The judicial results indicate that on the whole the prosecutions were judiciously instituted, 81.6 per cent. of the cases having ended in conviction. Besides, 437 persons were bound down for one year and 59 others for three years.

80. As a separate report has recently been submitted to Government regarding the Dome settlements in Saran and Champaran, I do not think it

necessary to reproduce the details here.

#### POLICE.

82. It will be seen that in every district there has been some advance in the process of introducing Act VI of 1870 in all villages, but the feature of the year has been the great revolution carried out in Gaya by the energy of the Magistrate, Mr. Savage. When the year began one out of every three villages in the district was under the old system, and there were far more regulation villages in Gaya than in any other district of the Division, viz., 2,177: when the year closed the whole of these had been converted into Act VI villages, and the village watch throughout the whole district is now administered by panchayats. This is a record of which Mr. Savage may well be proud, and it shows what can be done by perseverance and determination. He says:—

"Chaukidari matters had my special attention during my cold-weather tour, and the whole district is now divided into compact chaukidari villages, with on the average 10 chaukidars and one dafadar under one panchayat. When I began the work, I was told I could not get respectable men to act as members of the panchayat, but results have falsified the prediction. Respectable men have freely accepted the post, and as an instance I may note that the Raja of Deo volunteered to take the post of collecting member of his village panchayat: his offer was accepted, and he has been doing the work himself. The punches are now all composed of influential and representative men—a result that could not be obtained under the old system, under which petty hamlets had each their punch for the most part of illiterate Babhans or Gowalas. The new panchayats have commenced work well. They have made fair assemments on the whole, have paid up their chaukidars, and have been particularly useful as members of Local Charitable Relief Committees."

Saran most nearly approaches to Gaya in the completeness of the reform, for only 7 villages out of 3,866 are under the old regulation, in Patna 600, Muzaffarpur 513, and Champaran 372. The numbers of villages not yet under Act VI are large, but I trust that during the coming cold weather the District

Patna ... 16'05 Shahabad ... 3'05 Champaran ... 18'81 Muzaftarpur ... 12'40 Magistrates may be stimulated to still greater effort than before by what has been done in Gaya. The number of villages under the old regulation to every 100 in each district of the Division, excluding Gaya and Saran, is given in the margin.

83. Much attention has been given during the year to the payment of the chaukidars under Act VI of 1870, and the statement below shows very satisfactory results, when it is remembered that the scarcity prevailing during the last quarter of the year 1896 vastly increased the difficulties of the panchayats:—

	Number of			Number	B OF CHAI	UEIDARS	IN ABBR	ARS FOR-			
NAME OF DISTRICT.	chaukidars under Act VI of 1870.	Four months.	Five months.	Six months.	Seven months.	Eight month.	Nine months.	Ten months.	Eleven months.	Twelve months.	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12
Patna Gaya Shahabad Saran Champaran Musaffarpur Darbhanga	2,725 4,036 3,846 4,486 2,171 4,244 4,228	7 8		1 25 406 16 14 81 82	1		11 5	1	1	***	
Total	25,786	16	8	624	1		18	1	1	4	

The similar statement given in paragraph 143 of my report of last year showed that out of all the Act VI chaukidars, 4.99 per cent. were in arrears for four months or more at the end of the year 1895: at the end of 1896 the percentage was only 2.59. In Patna the results are extremely creditable to the Magistrate and his police officers. Champaran, Saran, and Gaya come next with practically no long-standing arrears, and then Muzaffarpur and Darbhanga, while Shahabad shows much the worst results. What is known locally as the Saran system, introduced by me in that district in 1892 on Mr. Forbes' models, was in force in Gaya, Saran, and Champaran, and the results are most satisfactory. In Darbhanga the same system is in force without the prompt prosecution of defaulting punches, which is an essential part of the scheme. In Muzaffarpur the same system is in force with modifications, but in Shahabad, which shows far the worst results in the Division, a cumbrous modification of the Saran system has been followed, which, however, since the close of the year, has been abolished or greatly improved. In Patna there is a system of baxis.

### STATE OF PUBLIC FEELING AND THE PUBLIC PRESS.

240. Since October last the one subject which has aroused and held the public interest everywhere is the price of food and the prospect of the crops. Little seems to be generally known of the operations of Government for the relief of famine, and I have been much surprised to notice how ignorant even well informed native gentleman are of what is going on except in their immediate neighbourhood; but there is no doubt that the masses have not been so generally interested for a long time. In October, when the prices fell suddenly owing to the operations of buyers for export to the North-Western Provinces and Central Provinces, there were petty grain riots at Arrah and Dinapore, and the public mind was a good deal stirred; but since that time there has been no ebullition. The most fantastic stories as to the intentions of Government have grown up on the relief works and around poor-houses from time to time, but these have been

rapidly forgotten without any evil results occurring, beyond sometimes a temporary stampede, and on the whole it is recognised that Government has made great efforts without which many lives would have been lost. It is remarkable as bearing out what I have said above that the local papers have hardly noticed the relief operations and the few native critics of our operations have been either local correspondents writing to native papers in Calcutta, or special correspondents sent up by them for the purpose.

241. At the beginning of the year there was a good deal of feeling among the educated classes in favour of a movement to petition for the separation of Bihar from Bengal, but this was crushed, for the time at any rate, by the Lieutenant-Governor's speech at Gaya. Few complaints are now heard against the settlement operations: certain misapprehensions on the subject were set right

when the Lieutenant-Governor was at Muzaffarpur in July 1896.

242. The papers locally published are almost, without exception, the same as before, Patna taking the lead with the Bihar Times which purports, to represent the conservative and patriotic Bihari elements, and the Bihar Herald, which is the organ of the Bengali-Biharies, as well as of the landholding classes. This unusual combination of interests is due to the position and circumstances of the editor. The Hindi, as well as the Bengali, version of the Bangabashi is a good deal read.

### XXXVIL-FAMINE RELIEF.

247. As a full report will be separately submitted to Government at the end of the relief operations, I consider it unnecessary here to do more than give a very brief sketch of the history of the scarcity during the year and of the measures taken to combat it, although as a fact these matters absorbed the greater part of the time and attention of myself and all the officers of

North Bihar and Shahabad for the last six months of the year.

In paragraphs 17 to 20 above I have already described the unfavourable weather and the want of rain which brought about a serious failure, first of the bhadoi and then of the aghani crop, and which greatly jeopardised the rabi. Providentially frequent showers throughout the last three months of the year under report saved the latter, and the crop turned out much better than was at first expected. Matters began to look serious early in September, and when the second half of that month and the whole of October passed without rain, it was manifest that the rice crop was doomed, and that the prospects of the rabi were seriously endangered. At the end of September and in the first week of October there was a sharp rise in prices, which created a good deal of panic and some local disturbances at Arrah and Dinapore. On the 8th and 23rd October I found it necessary to forward to Government two letters announcing the very critical condition of the crops, and on the 11th November, as prospects had not improved in the meantime, I submitted my preliminary report under section 9 of the Famine Code, and it was officially declared that scarcity was present. From that time up till the date of this report half-monthly reports have been regularly laid before Government, and they will continue to be submitted till October. These reports and those of the District Officers embody a complete narrative of events as they occurred, and may be referred to for further particulars.

248. On the 20th November all the District Officers in Bihar, the principal officers of the Public Works Department, and many of the leading non-officials were summoned to a conference at Sonepore, which was presided over by the Lieutenant-Governor, who travelled from Calcutta for the purpose. He subsequently made a second tour in March, visiting the works in the districts of Champaran and Darbhanga, and holding a second conference at the latter

station on the 5th February 1897.

249. As required by the Famine Code, relief was afforded along two broad lines, viz., by relief works and by gratuitous relief. Subsequently a good deal of further aid was given from the Indian Famine Charitable Relief Fund. All these will be dealt with in turn.

250 For the better supervision of all famine relief operations each district was divided into charges, and these again into circles, the general scheme being that each charge was to consist of 300 square miles, and each circle of 30 square miles, so that 10 circles went to a charge. These charges were manned by civilians, police officers, military officers lent for the purpose and non-officials many of whom were planters with local knowledge. Circle officers and

District.	No	Number of-			
220 6 88 0 2 .	Charges	. Circles			
1	2	3			
Shahabad Saran Champaran Muzaffarpur Darbhanga	4 7 7 8 11	19 66 78 78			
Total	42	329			

Circle officers and officers in charge of works were mostly natives, receiving from Rs. 50 to Rs. 100 a month according to qualifications, but towards the end of the year a number of European non-commissioned officers and privates were deputed for this work, and later still after the year closed some native officers also were obtained: many indigo-planters, and their assistants gave their invaluable services gratuitously, especially in Champaran and Muzaffarpur. At the time of greatest pressure the number of charges and circles in each district was as in the margin.

251. Relief works were first opened in Champaran in the week ending the 14th November 1896, the numbers employed on that day being 1,417. During the next week Shahabad joined in, and by the 5th December the Collector of Saran had opened works, being followed in the succeeding week by the Collector of Darbhanga. After a pause works were opened in Muzaffarpur just before Christmas, and by the 1st January 1897, Patna also had relief works started. All these were at first of the nature of test works, but the numbers rose, and the total employed on relief works in the Division on the 2nd January 1897 was 65,339. From this time they rose very rapidly, though irregularly, and the highest total on relief works was reached on the 29th May 1897, when the number of persons so employed was 363,057. On the last Saturday in the year, viz., the 27th March 1897, the numbers were 273,511.

252. Gratuitous relief was administered first in Saran in the week ending the 5th December. It was commenced in Champaran, and in Darbhanga in the succeeding week, and in Muzaffarpur just before Christmas, simultaneously with the opening of the relief works. In Patna operations commenced in the week ending the 23rd January, and in Shahabad not till the first week in February. The highest numbers in receipt of gratuitous relief were

	PE	Percentage on -						
DISTRICT.	Relief works.	Gratuitous relief.	Total.					
1	2	8	4					
Shahabad Saran Champaran Muzaffarpur Darbhanga	6·87 1·80	4.62 1.87 3.70 1.70 8.11	6.66 2.99 9.97 3.50 8.08					
Total	8.72	2.74	6:47					

recorded on Saturday, the 5th June 1897, when the total was 380,762: on the last Saturday of the year, viz., 27th March 1897, the numbers on gratuitous relief were 201,899.

253. The statement below gives details of the numbers relieved on the last-named day both on works and gratuitously. It includes those relieved by certain private agencies, i.e., the Darbhanga Raj in Darbhanga, the Hatwa Raj in Saran by direction of the Court of Wards, and zamindar of Manjha in the same district. The percentage of persons relieved to the whole population of the affected tracts is as in the margin—

Statement showing the number of persons on Relief Works and on Gratuitous Relief on Saturday the 27th March 1897.

				BARIATE	WORKS.		Ga	ATUITO	e antin	<b>7.</b>		To	PAL.	
Distric	æ.		Men.	Woren.	Children.	Total.	Nec.	Women.	Children.	Total	Men.	Women.	Ohildren,	Total
1			8	3	•	8	6	7	8	9	10	11	19	18
Patna	800		401	000	***	040	80	45	15	140	80	45	15	100
Gaya	896	001	100				***	408		604		•••	404	100
Bhahabad	4	861	3,291	2,665	3,547	7,593	8,858	8,073	5,283	17,209	6,144	10,758	7,830	24,721
Baran	0 6 9	901	8,534	4,501	4,614	13,640	4,616	16,388	6,178	27,203	8,350	20,589	10,792	30,651
Hatwa	***	610	1,460	1,488	1,200	4,117	148	222	140	807	1,896	1,680	1,349	4,000
Manjha	000	***	800	***	***	***	76	7	13	96	76	7	18	91
Champaran	000		45,790	34,909	29,207	106,836	12,565	25,978	19,047	87,890	55,286	60,887	68,954	164,400
Manufarhar	9.00		14,976	7,369	7,570	29,915	6,116	12,723	9,514	20,868	21,098	20,025	17,084	51,30
Darbbanga	_		804	000	002	95,984	***	***	0 mt	60,658	***	***		186,54
Disto Raj	**		10,919	4,393	1,375	16,647	1,851	4,566	8,797	10,216	18,770	0,960	5,178	26,90
	Total					278,511		447		201,800	•,,,	000		475,42

254. On relief works numbers were greatly affected by the demands for field labour, and by rainfall and to a less degree by the occurrence of holidays. Temporary fluctuations also occurred when any changes of system were introduced or when strikes took place. The numbers on gratuitous relief have gone up more steadily under the influence of two factors—the completion of the necessary organization and the increasing distress as time passed, bringing with it the gradual exhaustion of stocks and slowly rising prices. The following statement gives the numbers in each district relieved in every way during the year 1896-97, month by month—all reduced to terms of one day:—

MOSTE AND CLASS.			Patna.	Shahabad,	Saran.	Champaran.	Musaffar- pur.	Dar- bhanga.	Total.
	1	1	1	8	4	6	6	7	0
November	Relief works		4,460	25,984	616 126	86,918	6,704	19,544 84	88,246 210
	(Total		4,450	25,984	743	\$6,918	4,704	12,628	85,456
Doomber	(Relief works	604	3,744	20,784	25,930 14,658	298,496 16,716	2,779	90.063 65,213	440,506 96,586
	Total		2,744	80,734	40,468	315,140	2,778	155,274	637,155
January	Relief works		18.R16 259	49,693 6,279	912,835 133,371	2,478,395 147,203	102,516 60,291	2,150,918 1,231,647	8,170,178 1,579,063
	Total		19,068	55,972	416,206	2,022,509	262,806	3,382,575	6,749,225
February	Relief works	,534 BB1	3,684	27,804 279,166	842,034 464,233	9,651,869 725,638	82R,64A 807,416	\$ 822,480 1,846,488	4,090,814
	Total		3,654	377,870	770,366	8,379,320	1,334,076	4,768,916	10,565,604
March	Relief works Gratuitous relief	001	3,038	91,743 396,668	818,93F 604,068	3,137,946 1,569,988	678,814 923,284	2,169,579 1,525,524	6,192,144 6,912,460
	Total	220	3,026	478,310	919,396	4,707,536	1,302,098	3,494,026	11,104,004
Total	Relief works Gratuitous relief		36,040 6,946	215,967 672,413	906,588	8,001,460 3,450,345	1,907,464	7,344,454 4,618,965	10,559,918
	Total	044	32,964	006,370	3,146,996	11,061,813	2,898,455	18,013,481	20,042,941

255. At first on relief works there was some uncertainty as to the task and wage, since it appeared that the tables given in the Bengal Famine Code were not entirely suitable to the conditions of the time. After a conference held at Muzaffarpur on the 4th and 5th December, at which most of the local officers as well as Messrs. Finucane and Glass, Secretaries to Government, were present, task tables drawn up by the latter were introduced, and these have formed the basis of all subsequent operations. It was decided at the same time that all large works were to be executed by officers of the Public Works Department, minor works being carried out by the civil agency under the direct orders of the Collector. About the end of December the experience of the Government of the North-Western Provinces in the Bundelkhand famine of 1895-96 was made public, and about the end of January the conclusions arrived at by that Government for the administration of relief works were substantially adopted for use in Behar. A little later the North-Western Provinces system of exacting tasks from diggers only, all carriers being paid the daily wage, was discarded for one of large gangs, and this again after the Darbhanga conference in March was finally given up in favour of the system of pit gangs or family gangs, which has been carried on ever since with signal success. Later in the year, at the suggestion of the Government of Iudia, a modified piece-work system was considered and eventually adopted for many large works under professional supervision. It has proved equally successful and popular, and it seems likely that this system will be largely adopted in future, and be accorded a place in the Famine Code as an alternative, under certain conditions, to the pit-gang system evolved in this Division.

256. In order more efficiently to cope with the work to be done by the Department of Public Works, a complete re-organisation of that Department was ordered about the month of February 1897. Two circles were formed—the first comprising Muzaffarpur and Darbhanga, and the second Shahabad, Saran, and Champaran with Mr. C. A. Mills as Superintendent of the first and Mr. J. H. Toogood of the second. Executive Engineers were appointed to all of these districts except Shahabad, while Champaran, and Darbhanga, had two each; a sufficient staff of Assistant Engineers and subordinates was also appointed. These arrangements were still in force when the year 1896-97 came to

an end.

257. The number of works open gradually increased as scarcity deepened,

	No	NUMBER OF WORKS.						
District.	Civil agency.	Public Works Depart- ment agency.	Total					
1	2	3	4					
Shahabad Saran Champaran	. 29 . 59	2 21 12	7 31 80 70					
Mozaffarpur Darbhanga	80	45	131					
Total	. 242	80	322					

dually increased as scarcity deepened, till in the week ending on the 12th June it was as high as 441. In the last week of the year, i.e., that ending on the 27th March 1897, the number of works open was 322 as in the margin. At that time also the cost per 1,000 cubic feet and the average outturn per male unit were as follows:—Cost per 1,000 cubic feet—Shahabad Rs. 2-10-11, Saran Re. 1-15-4, Champaran Rs. 3-12-5, Muzaffarpur Re. 1-13-5, Darbhanga Rs. 2-14 5. Outturn per male unit in cubic feet—Shahabad 42, Saran 45½, Champaran 27¼, Muzaffarpur 47, Darbhanga 29½. The reason of the good returns in Muzaffarpur is that the work was mostly on roads, and a large propor-

tion of the labourers were men; in Champaran and Darbhanga the poor outturn was due to a large proportion of the works being tanks with long lead and lift; in Saran it was due partly to the same reason and partly to the smaller number of men on the works.

258. The private relief works of the Hatwa Raj were conducted on Famine Code principles by the Court of Wards: those carried out by the Maharaja of Darbhanga were based on a piece-work system, differing not greatly from that subsequently adopted by the Public Works Department.

259. Gratuitous relief was afforded in all the methods sanctioned by the Famine Code, viz., by grain and money doles in villages or at central spots, by

poor-houses, by kitchens, and by the relief of casual vagrants and others assisted by the police. Relief has been granted most largely under the first head. It has been found as a matter of practice that it was virtually impossible to use poor-houses as a test of distress, as only those who were in the last stage of disease or destitution would enter them. Large numbers of the more respectable classes would literally prefer to die rather than to seek shelter there.

DISTRICT.		Numbers in receipt of gratui- tous relief.	Percent-
1		2	3
Shahabad Saran Champaran Muzaffarpur Darbhanga	***	17.209 27.835 57.590 28.353 70,772	4·62 1·87 3·70 1·70 8·11
Total		201,759	2.74

Kitchens were at first opened chiefly on the main roads for the succour of wanderers and pilgrims, but later on they were used to feed the children who, it was noticed, were beginning in all districts to fall into bad condition. Since the close of the year they have been utilised as one means of closing relief operations; the acceptance of cooked food at a kitchen being made a test of necessitousness for all except those who were physically incapable of coming for food. The numbers of persons on gratuitous relief in each district on the last Saturday of the year are given in the marginal statement, which also shows the proportion which they bear to the total population of the affected area.

260. Exception has been taken to the numbers receiving gratuitous relief both actually and relatively to the numbers on relief works, but after careful examination it has been admitted that the figures are not unreasonable, regade being had to the following facts:—(a) that the population of North Bihar is both extraordinarily dense and extraordinarily poor; (b) that among all those seen by many observers in the receipt of gratuitous relief, none were observed

who were capable of doing work.

261. From the Indian Famine Charitable Relief Fund, relief was afforded on not quite the same lines as those adopted by Government. The local committees formed for the administration of this Fund particularly devoted themselves to the relief of the respectable poor, who by the custom of the country are debarred from appearing in public to accept relief, and also to orphans and widows; they also assisted with gifts of clothing and blankets and extra comforts to the sick, and lastly they have expended large sums in small donations to distressed agriculturists and others in order to set them on their feet again after the scarcity. By the time that the year ended these arrangements were hardly in working order and little or no money had been distributed, but since that time arrangements have been completed, and the liberal allotment of 13 lakhs, which has been made by the Central Committee, will have been expended to the great advantage of the very poorest classes of the community by the

time that the operations are closed. 262. The wants of the population and the deficiencies of the crops have been fully met by private trade, which has imported food-grain to an unprecedented extent. Much has been said on the subject in paragraphs 43 to 50 of this report, and it has been pointed out how completely the conditions of the normal trade have been changed by the requirements of the present season. It has been shown that during the first half of the year under report grain was exported from the Division in large quantities, but that as soon as the failure of the crops was certain and the necessities of the situation declared themselves, an immense import business arose chiefly from Calcutta (which sent up Burma rice in large quantities), Orissa and the Burdwan Divisions. The figures in the paragraphs above referred to are, however, only for traffic outside the Division, and take no count of traffic between districts within the Division. I therefore give below for facility of reference figures to show for each district in the Division its operations in food-grain traffic carried by rail during the year 1896-97. It will be seen at a glance how the direction and volume of the trade have been changed. Large though the figures are, they do not represent the total imports of the Division, since there has certainly been a large importation from Nipal all along the frontier, and much inter-district traffic by road and river has escaped registration—

			Excuse I	MPORTS ON I	Exports,			
HORIE.	Patna. Gaya.		Shuhabad. Saran.		Champaran.	Musaffarpur.	Darbhanga.	Total.
1	8	8	•	В	6	7	8	9
ipril 1896 lay une uly leguat letober levember lecember lecember leaunry 1897 elamary 1897 elamary	# 91,036 # 233,571 # 233,571 # 363,449 # 168,9-3 # 189,9-3 # 301,552 # 301,552 # 45,033 # 141,864 # 15,563 # 14,120 # 4,120 # 1,605,859	E 7,378 E 16,555 E 84,129 E 6,751 I 2,520 E 12,421 £ 2,995 I 3,612 E 6,252 I 12,210 I 10,355	E 18,892 E 82,056 E 97,238 E 41,771 E 35,692 E 6,834 E 49,407 I 3,053 I 31,128 I 14,721 E 265,560	I 1,716 I 1,163 I 3,767 E 1,459 I 16 94 I 7,738 I 13,880 I 86,746 I 89,337 I 231,031 I 15 1,957 I 107,657	# 1,154 # 270 # 1,679 # 0,165 # 2,145 # 2,145 # 2,146 # 2,171 # 1,802 # 13,038 # 1,20,287 # 65,288	I 627 R 1.414 E 3.750 E 2.501 I 2.028 R 940 I 1.725 I 24.074 I 28.301 I 86.908 I 100,110 I \$21,926	E 2,838 E 1,547 E 14,412 E 10,810 E 7,679 E 3,639 E 24,750 E 71,502 E 58,061 I 24,634 I 57,189 I 103,496 E 9,720	E 119,546 E 385,103 E 446,134 E 229,046 E 212,806 E 85,825 E 365,234 E 89,637 E 81,631 I 378,631 I 466,687

263. The health of the people throughout the scarcity has remained extraordinarily good, and as a reference to the appendices will show, the mortality has everywhere been below the average. There has been some increase in

crime, but not so much as might have been expected.

264. It is too soon to speak yet with certainty as to the total cost of the famine relief operations, and even with regard to expenditure up to the 31st March 1897, the considerable sums still unadjusted preclude me from giving final figures, but it is believed that the estimate of Rs 1,08,96,000 for the whole operations of which Rs. 29,54,000 are to be spent in 1896-97 will not be exceeded.

## XXXVIII.-GENERAL BEMARKS.

265. The shadow of famine, though it fell over the Division only during the last six months of the year, lends a sombre hue to the whole landscape as one looks back over the past year, and it is difficult to realise that on the far horizon once the sun shone, and all was fair and prosperous. This subject has almost entirely absorbed the attention of myself and the district officers, since the rains began to fail just a year ago, and all others have of necessity been relegated to subordinate position. Nevertheless the year has been one of progress

and interest in many ways.

Two important railway lines have been commenced in South Bihar and one in North Bihar (Hajipur-Katihar), and have been well advanced. In Champaran, three important feeder lines have been undertakan, and are in various stages of progress, viz. Bettiah to Chainpathia, Segouli to Raksaul, and Bairagnia to Batsara, while in Darbhanga the Sakri-Jainagar extension commenced during the year has been almost completed, so far as earthwork goes, since its close. The Engineers of the Sone Canals exceeded all previous records in their successful efforts to supply water, and they saved the crops over hundreds of square miles in Shahabad, Gaya, and Patna-a feat for which no praise is too extravagant. The chaukidari system has been further developed, in Gaya, Saran, and Muzaffarpur especially, and the whole force, and particularly the dafadars where they have been introduced, have rendered most valuable service during the relief operations. The public health has been extraordinarily good owing to the remarkable absence of cholera, and this may be largely attributed to the increased attention paid to the purity of water-supply and the use of disinfectants; the precautions taken at relief works, poor-houses and kitchens, and the success which has followed them have provided an object lesson to the public which has not been thrown away. There have been practically no religious dissensions or breaches of the peace on fanatical grounds aince the Bakr-Id of May 1896 in Darbhanga, and some little trouble in Bihar at the time of the Gunesh Pujah in August. The Muharram of 1896 passed off quietly everywhere. The controversy which raged around the location of the Japanese image at Bodh Gaya has died down, and the public peace has remain. ed unbroken. Lastly, in the field of archæological enquiry, distinct progress has been made in excavating the site of the ancient capital of the Mauryas at Patna, and in identifying sites of the greatest sanctity and importance in Buddhist eyes. 267. On the other hand, besides the scarcity which, through the medium of high prices, affected all classes everywhere, there has been some anxiety lest bubonic plague should be imported from Bombay. Sanitary measures more or less thorough, have been adopted in most of our large towns, but it was considered by the Sanitary Board to be unnecessary to establish an examining station on the line of railway as had been proposed. Cattle-disease has been prevalent in several, districts, but, paradoxical as it may seem in a year of scarcity, their general condition has been better than usual, for in the earlier months of the scarcity they were largely fed on the stunted crops, and later on the frequent showers of the cold weather maintained a perpetual supply of forage. Crime has increased a good deal, especially in the northern districts owing to the scarcity, but it has been of a petty nature.

268. As I write the prospects for the remainder of the current year are most hopeful. The monsoon so far except in a few places, has been of an ideally favourable character, so that the bhadoi promises to be above an average crop; and if good rain falls in the end of September, the rice should do equally well over most of the Division. With good crops and a fall in prices our affairs should soon run again in their old channels, but the great exhaustion of stocks which this year has brought about will be felt by the rural population for

some time to come.

During the current year as soon as the famine phantom has been laid the following among other matters will require attention: the thorough repair of communications by the District Boards, which have necessarily been somewhat neglected while every available rupee was devoted to relief operations; the perfection of the dafadari system and an examination of chaukidari assessments; the continuation of survey and settlement operations; the provision of watersupply for the cities of Patna and Gaya; and lastly a perpetual vigilance against fanatical outbreaks.

# The Canal Revenue Reports for 1896-97.

#### No. 1390I.A.

#### LRRIGATION DEPARTMENT.

#### ACCOUNTS.

Dated Calcutta, the 7th December 1897.

#### RESOLUTION.

READ-

The Canal Revenue Reports for 1896-97 and the Chief Engineer's note on the same.

The capital outlay on canals in Bengal, for which capital and revenue accounts are kept, had reached a total of Rs. 7,61,23,817 at the close of the year 1896-97. Of this sum, Rs. 1,16,18,801 have been provided from provincial funds, Rs. 6,15,89,436\* from loan funds, and Rs. 8,66,000 contributed by the Imperial Government from the Famine Relief and Insurance Fund.

- 2. The total length of canals in operation is 916 miles, of which 495½ miles are for irrigation and navigation, 242¾ miles for irrigation only, and 178 miles for navigation only. There are also 2,605 miles of distributaries, capable of irrigating 1,572,005 acres.
- 3. The receipts for the year from both Major and Minor Works amounted to Rs. 25,63.047 and the working expenses to Rs. 19,37,142, the net revenue being Rs. 6,25,905 against Rs. 2,45,646 in 1895-96, and Rs. 1,38,135 in 1894-95. The receipts were much greater, and the expenditure was somewhat less, than in the preceding year.
- 4. The results of the year's working of the canal systems of Bengal, and the capital expenditure to date, are exhibited in the following table:—

Name of Canal	Capital expenditure (direct and indirect) during year.	Capital expenditure (direct and indirect) to date.	Receipts of year, less refunds.	Average receipts of nine years ending 1895-96.	Expenditure of year includ- ing indirect expenditure.	Average exponditure of nine years ending 1895-9d.	Net income of year.	Average net income of nine years ending 1893-96.
1	3	3	4	5	C	7	8	9
MAJOR WORKS.	Ra.	Re.	Re.	Re.	Rs.	Ra.	Re,	Rs.
Orissa Canals Midnanore Canal High Tutal Canal Sone Canals	15,183 6,219 57,150 () 20,030	2,62,37,020 54,60,252 26,14,142 2,68,97,308	4,72,047 2,78,667 90,946 10,69,645	8,45,316 2,69,708 48,550 8,34,947	4.95,745 2.33,309 40,191 5,97,364	4,72,418 2,27,623 52,712 7,10,672	(-) 22,796 (+) 45,358 (+) 50,785 (+) 4,62,181	(-) 1,27,102 (+) 42,085 (-) 4,162 (+) 1,18,275
Total for { 1890-97 1895-96	29,513 1,53,882	6,42,09,591 6,41,80,078	19,02,205 15,07,729	14,98,821 {	13,06,707 13,84,340	} 14,69,425 {	5,3 <b>5,49</b> 8 1,23,389	}(+) <b>29</b> ,093
Minor Works and Naviga- tion for 1896-97 Ditto for 1895-96	4,88,457 1,00,776	1,19,14,226 1,14,25,769	6,00,840 7,01,135	} 7,75,106 {	5,70,4 <b>35</b> 5,75,8d8	} 5,44,853 {	90,407 1,22,167	}(+) 2,30,318

The only minor works for which capital accounts are kept are the Orissa Coast. Calcutta and Eastern, and Saran Canala.

The interest charges debited in 1896.97 to Provincial revenues amounted to Rs. 24,98,009, which, after deducting the net revenue, works out to a deficit of 3.05 on the capital expenditure.

5. The statement below shows the areas irrigated for the last ten years and the average rainfall. Except in the case of the Sone Canals, the rabi

<sup>•</sup> Exclusive of indirect charges amounting to Rs. 20,19,580.

irrigation is too insignificant to be shown separately. The area under the head Perennial is not extensive, and is included under kharif:—

					So	NE CANALS			
	YEAR. Orissa Canals.		Midna- pore Canal.	Kharif, inclusive of hot weather.	Babi.	Total.	All Osnals	Rainfall.	
	1		2	8	4	5	6	7	8
			Aores.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.
1887-98 1888-89 1889-90 1890-91 1891-92 1892-93 1893-94 1894-95 1895-96 1896-97	*** *** *** *** *** *** *** *** *** **		109,506 159,292 186,627 180,290 177,686 160,952 103,526 122,561 119,460 185,048	65,864 69,777 68,810 82,002 8x,973 91,217 85,768 70,116 65,251 65,183	245,435 255,767 249,669 229,696 263,816 284,560 300,318 275,475 279,879 339,766	69,945 100,142 65,613 61,318 210,907 126,196 66,458 41,664 116,313 216,390	816,360 805,282 281,014 474,723 410,761 946,776 317,134 895,222 565,166	609,811 679,998	86*70 52*71 64*02 67*03 46*65 45*13 64*03 58*16 46*06 50*61
Average	of nine 1895-96	years	146,656	75,864	264,957	93,065	358,022	580,542	61.10

The area irrigated during the year was 805,387 acres, as compared with 579,933 acres in 1895-96, and an average of 580,542 acres during the preceding nine years. The increase occurred chiefly in the area irrigated from the Sone Canals, but there was also a considerable increase in Orissa. In the Sone the rainfall was very deficient, and it failed entirely at the periods when it was most required; in Orissa the rainfall was above the average, but it was not well distributed. The areas irrigated by the Sone Canals, and the total for all canals, are the largest on record.

6. The assessment and collection of water-rates are made under the orders of Superintending Engineers. The recovery of arrears is under the Special Canal Deputy Collectors, in subordination to the District Officers, who also exercise appellate jurisdiction in regard to all orders passed by canal officers under Act III (B.C.) of 1876. The progress made in collection work is shown in the following table:—

	YEAR.		YEAR.		YEAR. begin		Balance at beginning of year.	Balance at the end of the year.	Remissions, including can- celled demand statements.	Irrecoverable items.
,	1		2	3	4	5				
			Rs.	Rs.	Rs.	Ro.				
1887-88			3,69,789	5,59,883	32,356	19,796				
1888-89	***		5,59,883	5,79,983	42,666	14,074				
1889-90	•••		5,79,983	5,09,188	80,282	20,592				
1890-91			5,09,188	4,72,113	48,674	16,476				
1891-92	411		4,72,113	4,04,120	38,421	12,126				
1892-93	***		4,04,120	2,26,174	61,576	11,168				
1893-94			2,26,174	1,72,235	29,034	4,818				
1894-95			1,72,285	77,498	14,367	4,815				
1895-96	447		77,498	67,460	8,573	5,371				
1896-97			67,460	25,464	29,640	2,606				
Average precedi	of nine		3,74,554	3,40,961	89,550	12,137				

The improvement in administration, which has been remarked in recent years, steadily continues, and is still more pronounced than in the previous year. The balance uncollected at the end of the year was Rs. 25,464, as compared with Rs. 67,460 at its commencement.

The amount remitted was Rs. 29,640 against Rs. 8,573 in 1895-96. The excess occurred in the Orissa Project, where Rs. 15,500 were remitted on lands that came under lease late in October, and so did not benefit by the water supplied.

7. The collection work of each canal is shown in the following table:-

Canal.		Demand.			Collections (INCLUDING REMISSIONS).			Percent- age of total collec-
OZRZD.	Arrear.	Current.	Total.	Arrear.	Current.	Total.	tion on current domand.	tion on total demand
1	2	3	4	6	6	7	8	9
	Rs.	Ra.	Rs.	Rs.	Rs.	Rs.		
Orissa Midnapore Sone	48,774 15,220 26,578	2,21,086 1,00,565 9,48,280	2,69,860 1,15,785 9,73,858	48,749 14.311 26,124	2,16,514 90,035 9,39,806	2,65,263 1,04,346 9,64,430	97·93 89·52 99·06	98·29 90 12 99·03

8. The collections made under navigation (excluding miscellaneous navigation receipts and those of the transport services) are shown below for ten years:—

	YEAR.		Orissa Canals.	Midnapore Canals.	Hijili Tidal Canal.	Sone Canals.	Total.	Miles open.	Tollage per mile.
	1		2	3	4	5	6	7	8
		1	Rs.	Re.	Rs.	Ra.	Ra.	Miles.	Rs.
1887-88	0 0 b	0.91	66,628	1,26,574	40,406	50,984	2,84,592	490	580-7
1898-89		***	69,830	1,46,760	63,910	52,162	3,22,662	4961	649.9
1889-90	***	001	78,039	1,45,356	40,338	61,189	3.14,926	4964	684.8
1890-91	***		1,06,961	1,10,830	27,145	56,693	3,01,529	4961	607.3
1891-92	***	400	1,20,761	1,32,672	36,348	67,339	3,47,020	5241	662.3
1892-93	400		1,00,603	1,14,141	52,180	49,996	8,16,820	5241	604.3
18:13-94	4.09	004	1,19,115	1,14,994	58,209	50,648	3,42,866	5241	654 0
1894-95	000		98,220	1.35,492	67,089	49,349	3,38,169	624	645.0
1895-96	9 9 1	***	1,42,617	1,43.918	60,640	61,370	3,98,546	524}	760.6
1896-97	999	000	1,58,262	1,54,215	89,390	56,445	4,58,312	5241	874-2
	ge of nin		1,90,075	1,30,071	47,363	<b>52,1</b> 70	3,29,679	******	004400

The navigation receipts exceed those of the previous year by nearly Rs. 59,800, and are by far the largest yet recorded.

9. The miscellaneous revenue amounted to Rs. 96,660 as compared with Rs. 80,660 in 1895-96, the average for the previous nine years being Rs. 67,060.

10. The results of the year's working have, on the whole, been very favourable. The receipts from Major Works very largely exceeded those of the previous year, and were far above the average of the preceding nine years. The working expenses showed a reduction, and were lower than at any period during the last nine years. The net revenue was more than four times that of last year, and exceeded the average of the previous nine years by over five lakhs of rupees.

As regards Minor Works there was a decrease in receipts, but there was also a slight reduction in working expenses; the net revenue, however, was less than in 1895-96, and was much below the average.

11. The working of each canal system will now be separately considered,

commencing with the Orissa Canals.

The Capital outlay on works during 1896-97 amounted to Rs. 14,895, and was chiefly confined to the completion of the protective embankment on the right bank of the Byturni river, and some of the distributaries of the Jajpur Canal. The work of raising and strengthening the flood bank of the Kendrapara Extension Canal was in progress at the close of the year.

12. The receipts on the revenue account were Rs. 4,72,947, as compared with Rs. 4,16,804 in 1895-96, and an average of Rs. 3,45,316 for the preceding nine years. The increase in water-rates amounted to Rs. 22,129, a smaller result

than might have been looked for; but the Superintending Engineer explains that the increased area brought under irrigation will affect the revenue more in the current year than in that under review. A considerable part of the area brought under lease was not assessed for 1896-97, and of the remainder the

assessments were not all completed within the year.

The navigation receipts exceeded those of the previous year by Rs. 25,722. The trade in rice which was very active in 1895-96 was well maintained, and the construction of the East Coast Railway led to the transport of an increased quality of metals and building materials. The Superintending Engineer is of opinion that the continuance of the exports of rice, notwithstanding flood and drought, shows that the general state of the Orissa districts is far superior to what it must have been 30 years ago, and that the benefit conferred on Orissa by the canals, and by a more systematic control and repair of flood embankments, is a material one.

13. The area irrigated during the year was 185,048 acres against 119,460 in 1895-96. The rainfall though plentiful, was not well distributed, and there was an almost complete absence of rain in October and November, which

resulted in a great demand for water.

The area leased for a term of years increased from 112,938 acres to 188,332

acres.

14. The transport service was worked at a profit of Rs. 21,324 against Rs. 15,683 in the preceding year. The charge for tollage, which is practically a receipt, is omitted from the cost of working. There was again a considerable increase in traffic, largely due to the railway works which are now under con-

struction, and the earnings are the largest yet recorded.

15. The result of the collection of water-rates shows a balance at the end of the year of Rs. 4,597 against Rs. 34,343 at the close of 1895-96; a very small balance as compared with previous years. The collection was good, and the adjustment of practically the whole of the arrears is satisfactory. The number of objections to assessment was almost the same as in the preceding year. The amount remitted or written off was Rs. 18,486, which is large compared with the last few years. It includes, however, Rs. 15,500 remitted on lands that came under lease late in October, and therefore did not receive benefit from the water.

16. The number of certificate cases instituted during the year was 1,989 against 2,497 in 1895-96. The Lieutenant-Governor notes with satisfaction the continuance of the improvement which was remarked in last year's report. Only two cases were pending at the close of the year against 165 at its

commencement.

17. The working expenses of the Crissa Canals amounted to Rs. 4,95,743, as compared with Rs. 4,72,395 in 1895-96, and Rs. 4,83,320 in 1894-95. The increase is considered to be temporary, and is due mainly to the effects of a high and prolonged flood in the Mahanadi which did much damage, and choked the heads of the Taldanda and Kendrapara Canals with sand. The Kendrapara Extension Canal was practically wrecked by this flood, and its restoration

is being treated as a separate work.

18. On the Midnapore Canel the financial result of the year's working is satisfactory. The receipts rose from Rs. 2,63,633 to Rs. 2,78,667; the expenditure was less than that of the previous year by Rs. 42,804, and the net revenue amounted to Rs. 45,358. The receipts from water-rates slightly exceeded those of last year. There was good rainfall at the beginning of the season, but it ceased in September, and the demand for water during the remainder of the season was very great. The area irrigated was 65,183 acres, or almost exactly the same area as in the previous year. A much larger area would have been irrigated had it not been necessary to refuse all applications after the 20th October, on account of the small discharge available from the Cossye river. It may be noted, however, that long-term leases for 17,201 acres expired at the end of 1895-96, whereas leases for 20,044 acres were executed during the year, so there has been no falling off.

It was remarked last year that the reluctance of the cultivators to renew expired leases was apparently due to discontent regarding certain of the rules in force, and that a proposal to relax some of the rules was under the consideration of Government. During the year under review a concession has been granted as regards remeasurement of the area to be leased; the imposition of the 12-anna rate, under Rule 8, for villages which did not renew their leases the same year in which they lapsed, has been abolished; and all water-rates above Rs. 5 are now collected in two instalments. The effect of these concessions cannot, however, be gauged this year: the character of the season was such that there is no doubt that the leases would have been

renewed if the concessions had not been granted. Navigation receipts rose from Rs. 1,43,918 to Rs. 1,54,215, and were the highest on record during the last ten years.

19. The progress in the collection of water-rates was not altogether satisfactory, the balance at the end of the year being Rs. 11,439 against Rs. 10,124 in 1895-96, and Rs. 4,549 in 1894-95. The large balance is explained to be due to certain unfavourable incidents which retarded the work of collection. A sum of Rs. 2,563 on account of unauthorised irrigation could not be collected, as the cases were disposed of in February and March; the late date on which some villages applied for leases, and the payment of sums over Rs. 5 in two instalments, also told upon the collections to a certain extent. The amount remitted or written off was Rs. 3,727, as compared with Rs. 477 in the previous year. This large increase is due to the remission of Rs. 2,854 on account of the penalty rate of 12 annas imposed during 1895-96, and also to the deficient supply of water for which remissions had to be granted. The number of certificate cases instituted during the year was 565 against 286 in 1895-96, the increase being due mainly to the efforts made by the Special Deputy Collector to collect arrear demands. The number of cases outstanding at the end of the year was 31 against 58 in the preceding year.
20. The

working expenses of the Midnapore Canal amounted to

Rs. 2,33,309, and were less than those of the previous year by Rs. 42,804.
21. The Capital expenditure on the Hijili Tidal Canal amounted to Rs. 36,362, and was chiefly incurred in completing the supply channel at Terapakia, and lengthening the Kalinagar lock. The lock was opened to traffic on the 18th June 1896. There was a very satisfactory improvement in the traffic on the canal; the navigation receipts having increased to Rs. 89,511 from Rs. 60,677 in the preceding year. The number and tonnage of boats was much larger, and there was also an increase in the number of passengers

The working expenses were Rs. 40,191 or Rs. 21,207 less than those of the previous year. The net revenue amounted to Rs. 50,755. The result of the year's operation is very gratifying, and now that through traffic has been re-established by the opening of the Kalinagar lock, still better returns may

be looked for in future years.

22. The Sone Canals showed a net revenue of Rs. 4,62,181 as compared with Rs. 1,90,882 in 1895-96, and an average of Rs. 1,18,275 for the last nine years. The total receipts amounted to Rs. 10,59,645 against Rs. 7,65,316 in 1895-96. The receipts from water-rates increased from Rs. 6,77,714 to Rs. 9,57,726, and the navigation receipts rose to Rs. 70,006 from Rs. 61,261 in the previous year. The miscellaneous revenue was Rs. 36,961 against Rs. 33,148 in 1895-96. The working expenses were Rs. 5,97,464 as compared with Rs. 5,74,434 in 1895-96, Rs. 7,06,739 in 1894-95, and Rs. 7,40,976 in 1893-94. The cost of "Maintenance and Repairs" was larger than in the previous year, mainly because there was a closure of the canals during the year under review, and partly because extra silt clearance in front of the locks on the canals was necessary, on account of the unusually large amount of silt in the water. The measures adopted to check the deposit of silt at the heads of the canals continued to work successfully, but the results were not quite so good as those of the preceding year. The cost of silt clearance and dredging was Rs. 19,936 against Rs. 13,113 in 1895-96 and Rs. 76,674 in 1894-95.

The area irrigated was 555,156 acres as compared with 395,222 acres in 1895-96, and an average of 3,58,022 acres for the preceding nine years. This is the largest area ever irrigated by the Sone Canals. Until this year the largest area watered was in 1891-92 when it reached 474,723 acres. area under kharif was 55,456 acres more than in the previous year, and in the rabi season the increase amounted to 100,047 acres. The rainfall was abnormally bad in the kharif season, and it ceased entirely about the middle of September. The Sone Canals did good work in saving from almost entire destruction some 300,000 acres of rice crops. The value to the people of this crop was at least 150 lakks of rupees—a sum which is more than half the central cost of the centle. The year was one of extreme pressure on the the capital cost of the canals. The year was one of extreme pressure on the canal officers; the area of long-term leases to be measured was unusually large, and the work of distributing the supply was severe. The capacity of the canals was strained to its utmost limit, and discharges were passed into them exceeding anything hitherto attempted. The arrangements made were exceeding anything hitherto attempted. cellent, and no accidents occurred. Such was the anxiety of the people to obtain water, that several attempts were made to cut the canals, and by order

of the Lieutenant-Governor special measures were adopted by the Police to protect the banks. The Superintending Engineer remarks that the year's report shows on almost every page results which are better than any which have been declared before.

While realising that this is due in a great degree to the nature of the season itself, it is only true to say that such results could not have been obtained without hard work, patience, and cheerful co-operation among all members of the staff. The Lieutenant-Governor heartily concurs in this opinion, and desires to acknowledge the excellent work done by the Superintending Engineer and his staff.

- 24. The continued progress in the collection of water-rates is viewed by the Lieutenant-Governor with great satisfaction. The arrears outstanding on the 1st April 1896 amounted to Rs. 22,993, the current demand for 1896-97, including arrears, was Rs. 9,73,858, and of this sum Rs. 9,58,925, or 98 per cent., were collected. The unadjusted balance at the close of the year was Rs. 9,428. The current demand is unusually large, the arrears are unprecedentedly small, and the percentage of collections is better than that of any previous year. The collections were made with very little friction, and the results are creditable to the Deputy Collector Maulvi Syed Mohomed Nassiruddin and his staff.
- 25. The amount remitted was Rs. 5,505 against Rs 5,017 in 1895-96. The number of objections to assessment increased from 3,686 to 9,005, and the number undisposed of at the end of the year was 1,040 against 511. An increase in objections was only to be expected in a year of such large irrigation. The number of certificate cases instituted decreased from 1,253 to 1,036, and was less than in any previous year. Only eight cases were left undisposed of at the end of the year—a very satisfactory result.
- 26. An abstract of the result of the crop experiments made in the Sone and Orissa Circles in 1896-97 is given below:—

	Quality of ear	OUTTURN	OUTTURN PER ACRE.	
	Quality of crop.	Paddy.	Straw.	
1	2	3	4	
Orissa	Ditto	Mds. 24·2 27·7	Mdr. 32·9 54·5	

The rules for conducting crop experiments, which were referred to last year as being framed, have been issued, but they were not brought fully into operation during the year under review.

27. The following statement exhibits the financial results of the canals classed as Minor Works and Navigation. The Eden Canal has been included, as revenue is derived from it, though neither Capital nor Revenue Accounts are kept. The Saran Canals, for which Capital and Revenue Accounts are kept, are excluded: the revenue obtained from them is insignificant:—

	CAPITAL EXPANDITURE-				3	Average net income
	Of year.	To end of year.	Receipts.	Expenditure.	Not income.	of 9 years ending 1895-96.
1	2	8	4	6	6	7
	Rs.	Rs.	Ra.	Rs.	Rs.	Rs.
Calcutta and Eastern Canals Orissa Coast Canal Nadia Rivers kden Canal	4,68,976 20,682 Nil Nil	<b>59</b> ,5 <b>5</b> ,328 <b>44</b> ,98,290 Nil Nil	4,39,938 86,141 93,474 36,636	2,80,769 87,783 1,30,418 1,08,467	(—) 1,642 (—) 87,344 (—) 71,923	(+) 49,913 (-) 16,003
Total	4,89,657	1,04,53,618	6,56,085	5,67,817	(+) 98,271	(+) 2,86,636

28. The Calcutta and Eastern Canals are purely navigation works. The receipts amounted to Rs. 4,39,938 as compared with Rs. 4,55,244 in the previous year, and the working expenses were Rs. 2,30,759 against Rs. 2,91,640 in 1895-96. The net revenue increased from Rs. 1,63,604 to Rs. 2,09,179. The increase is due to the way in which the establishment charges have been apportioned between the works under Capital and Maintenance, the whole cost of the establishment having been debited to the former head. The total number of boats of all classes using the canals was less than in the previous year, but there was an increase in the number of boats above 25 maunds. The number of steamers and flats increased from 312 to 349. Notwithstanding the decrease in tollage, the receipts may be considered satisfactory when the failure of the rice crop in the Eastern district is taken into account. On rice alone the loss of tolls amounted to Rs. 40,610 as compared with 1895-96. The Sundarbans route was used by 1,336 steamers and flats against 1,482 in the preceding year. During the last ten years the tolls realised from the Sundarbans route have amounted to Rs. 55,285, while the expenditure during the same period was Rs. 57,390; it is therefore evident that the tollage receipts do not pay for the maintenance of the route. The question of improving that portion of the route upon which large expenditure has to be incurred periodically, should be carefully considered.

Very good progress was made in the work of canalizing a portion of the Eastern Canals between Kulti and Bamonghatta, known as the Bhangore khal, and Rs. 4,53,926 were expended during the year. Rupees 9,851 were spent on the improvement of the bhil route connecting Khulna with Madaripore.

29. The receipts from the Orissa Coast Canal amounted to Rs. 86,141 against Rs. 88,328 in 1895-96. The expenditure on maintenance rose from Rs. 70,119 to Rs. 87,783, the large increase being entirely due to the extensive repairs to the Bhaitghur lock. Under the Capital Account Rs. 20,273 were expended, chiefly on remodelling some of the escapes, constructing a new escape in the 106th mile, and dredging uncut portions of Range V. The financial results of the year are not satisfactory, the net revenue being (—) Rs. 1,642 as compared with Rs. 18,209 in the previous year. The falling off in the receipts is ascribed to the closure of the canal for repairs. The amount of tollage paid by steamer companies using the canal was less than in 1895-96, and there was a great reduction in the number of passengers carried, which is attributed partly to the closure of the Bhaitghur lock, and partly to more strict supervision by Government over the number of passengers carried by each steamer. The steamers stopped running at night altogether for some time, as the number of passengers allowed by the rules for night journeys is much less than for day journeys.

30. The receipts from the Nadia rivers were Rs. 93,474 as compared with Rs. 1,20,046 in the previous year. The working expenses were reduced from Rs. 1,46,281 to Rs. 1,30,818. The cost of maintenance showed a marked decrease, but there was a serious falling off in the receipts. The net revenue was (—) Rs. 37,344 or Rs. 11,109 less than that of the preceding year. The average receipts for the previous nine years were Rs. 1,74,235, and the average expenditure Rs. 1,24,323. The total number of steamers and boats

fell from 47,300 to 41,484, and the tonnage from 591,718 to 434,720.

These unfavourable results are entirely due to the early closure of the route, which was mainly caused by the low floods in the Ganges during the rains. Most of the boats from the Bihar and Malda districts, which would otherwise have used this route, were compelled to travel to Damukdea, where their cargoes were transhipped for conveyance by rail to Calcutta. The steamer services too, in consequence of the insufficient depth of water in these rivers, had to use their oute through the Sundarbans throughout the season. Another cause of the decrease in receipts is the competition of the East Indian Railway, which gives more favourable rates for traffic during the flood months, when the rivers can compete for the Ganges traffic.

The decline of traffic on these rivers, which has been the subject of remark for several years past, unfortunately continues unabated, and was this year aggravated by the unusually low level of the Ganges. The Superintending Engineer remarks that there will never be an increase of toll collections, unless the relation of the Ganges to the heads of the Nadia rivers becomes such that one or other of the rivers can be kept open at a moderate cost

throughout the year.

During the year every possible endeavour has been made to keep expenditure down to a minimum. This course should be steadfastly pursued, while at the same time unromitting attention is devoted to the question of keeping open a line of navigation throughout the year.

31. The area irrigated from the Eden Canal during 1896-97 was 21,294 acres as compared with 36,221 acres in the preceding year. The decrease of 14,927 acres was chiefly due to the non-renewal of the leases, which expired in 1895-96 in the Hooghly district, for want of proper means of irrigation. Two new distributaries are being constructed, and with improved means of distributing the water, it is probable that a much larger area will be irrigated in future. The water-rate collections amounted to Rs. 36,775 against Rs. 30,690 in the previous year, and the unrealised balance at the close of the year was Rs. 26,518 as compared with Rs. 33,883 in 1895-96. The improvement in the collection work is satisfactory. The expenditure amounted to Rs. 1,08,457 against Rs. 55,970 in the preceding year; but out of this total a sum of Rs. 51,676 was expended on the construction of the new distributaries, the actual expenditure on maintenance being about normal.

32. The Saran Canals were closed during the two previous years, but

32. The Saran Canals were closed during the two previous years, but in the rabi season of 1896.97, when it was found that no one would come forward to pay the lump sum required for the opening of a sluice, the canals were opened for irrigation on a system of individual assessment. The area irrigated was 4,080 acres. The collection of water-rates was undertaken by the Collector of the district; the assessments amounted to Rs. 6,416, a sum of Rs. 120 was remitted, and Rs. 30 were collected, leaving a balance of Rs. 6,266 at the close of the year. The working expenses were Rs. 11,934

and the receipts Rs. 934, giving a net revenue of (-) Rs. 11,000.

The result of opening the canals is disappointing, the supply of water was

inadequate, and it failed entirely when it was most needed.

33. The Madhuban Canal is stated to have irrigated 11,251 acres against 2,254 acres in 1895-96. The figures, however, are not reliable as the area is not measured. No measuring establishment is maintained, nor are water-rates levied. The expenditure was Rs. 5,791 as compared with Rs. 3,808 in the previous year. A distributary from this canal has been undertaken as a famine relief work.

34. The re-excavation of the Gaighatta and Buxi khal was completed in 1895-96. This channel, which is  $7\frac{1}{2}$  miles in length, and connects the Rupnarain and Dadmodar rivers, was taken over by the Public Works Department

in 1894.

The cost of maintaining the channel during the year was Rs. 684, and the receipts amounted to Rs. 3,820, the net revenue being Rs. 3,136. The right of collecting tolls on the *khal* has been leased for five years from 1896-97 at an annual rental of Rs. 4,500. Rupees 3,800 were realised before the 31st March 1897.

35. The thanks of Government are due to the following officers for the

excellent services rendered by them during the year:-

Mr. Buckley, Superintending Engineer, Sone Circle.

Mr. Horn, Superintending Engineer, South-Western Circle.

Mr. Inglis, Superintending Engineer, Orissa Circle. Mr. Barlow, Executive Engineer, Cossye Division. Mr. Butler, Executive Engineer, Buxar Division.

Mr. Searight, Executive Engineer, Eastern Sone Division.

Mr. DeMello, Executive Engineer, Arrah Division.

Order.—Ordered that a copy of this Resolution and of the Chief Engineer's note and its accompaniments be submitted to the Government of India in the Public Works Department and published in the Calcutta Gazette. Also that it be circulated to other Governments and to all Departments and officers of this Government as usual.

By order of the Lieutenant-Governor of Bengal,

A. S. THOMSON,

Under-Secretary to the Government of Bengal,

Irrigation Department.

# Gobernment of Bengal.

## IRRIGATION DEPARTMENT.

# REVENUE REPORT.

Note by Colonel A. D. McArthur, R.E., Chief Engineer, on the Canal Revenue
Reports of Bengal for the year 1896-97.

THE Capital expenditure on Irrigation Works in 1896 97 was as follows:-

	Direct charges.	Indirect charges.	Total.
Capital expenditure on Major Irrigation Works not charged against Revenue Capital expenditure on Minor Works and	28,029	1,484	29,518
Navigation, for which Capital and Revenue Accounts are kept	4,73,471	14,986	4,88,457
Total	5,01,500	16,470	5,17,970

2. The total Capital outlay at the end of the year 1896-97, including indirect charges, was:—

Major Irrigation Works-			Direct charges. Rs.	Indirect charges.	Total.
Productive Public Wo			6,24,64,226	17,45,365	6,42,09,891
Minor Works and Navigate Protective grants—Im		}	8,66,000 1,07,44,011	3,04,215	8,66,000 1,10,48,226
T	otal	•••	7,40,74,237	20,49,580	7,61,23,817

3. The outlay abstracted above is shown in the following statement divided under the different projects:—

	D	uring 1896-9	7	То	end of 1896-9	97.
Works.	Direct charges.	Indirect	Total.	Direct charges.	Indirect charges.	Total.
1	8	8	4	5	6	7
Major Irrigation Work	Ba.	Ra.	Ru.	Rs.	Rs.	Rs.
Orissa Canals	14,895	288	15,188	2,56,56,103	5,80,926	2,62,37,029
Midnapore Canal	6,060	169	6,219	82,75,723	1,84,529	84,60,261
Hijili Tidal Canal	86,962	788	37,160	25,51,429	63,513	26,14,943
Sone Canale	(-)29,288	249	()29,039	2,59,90,971	9,16,397	2,68,97,368
Total	28,029	1,481	29,513	6,24,64,226	17,45,366	6,42,09,591
Minor Works and Navigate	ion-					
Firhut project	***	***	000	8,31, <b>42</b> 5	74,650	6,06,075
Damodar project	(-)1,200	***	(-)1,200	1,41,541	16,239	1,67,780
Calcutta and Eastern Cana	4,64.398	14,677	4,68,975	68,75,637	79,791	69,65,328
Orissa Coast Canal	20,273	409	20,682	43,91,998	1,06,362	44,98,290
Saran Canals	• • • • • • • • • • • • • • • • • • • •		***	6,69,570	27,183	6,96,753
Total	4,79,471	14,986	4,88,457	1,16, 0,011	8,04,215	1,19,14,226
GRAND TOTAL	5,01,600	16,470	6,17,970	7,40,74,237	20,49,580	7,61,23,817

REVESUR.

4. The statement below shows the totals for the last five years of the receipts, working expenses, and interest charges for Major Irrigation Works:-

PARTICULARS.	1892-93.	1693 94.	1894-95.	1895-06.	1896-97.
1	2	3	4	6	6
	Rs.	Re.	Rs.	Rs.	Re.
Breeipts from all sources (less refunds of revenue)	18,83,347	16,65,005	15,20,127	16,07,729	19,02,206
Working expenses (direct and in- direct charges)	14,85,898	15,41,144	14,62,049	18,84,340	18,66,707
Net revenue Charges for interest	3,97,954 24,42,868	1,23,861 34,61,878	\$8,078 <b>24,8</b> 1,895	1,23,389	5,35,406 34,98,006
Deficit	20,44,409	23,38,017	24,23,917	23,71.110	19,63,511
Rate per cent. on Capital outlay	8:24	3.68	3.79	3.69	3:00

<sup>5.</sup> The total amount of interest payable to the Imperial Treasury of account of Major Irrigation Works for the year 1896-97 is Rs. 24,64,143.

6. The financial results of Major Irrigation Works to the end of the year \*\*BROULTS.\*\*
1896-97 were as follows:—

			Major Irrigation Works.
Direct revenue Working expenses (direct charges)	***	***	Rs. 2,81,06,079 2,66,31,983
Results on direct charges only Indirect charges debitable to revenue		Profit	14,74,096 15,54,531
Results on both direct and indirect charges Charges for interest on Capital	<b>16</b>	Loss	(—)80,435 5,36,11,081
Net results, including interest to end of 1	896-97	Loss	(-)5,36,91,516

7. The financial results to the close of the year 1896 97 of Minor Works and Navigation are shown below:—

		capital and revenue accounts are kept.	which only revenue accounts are kept.
Direct revenue Working expenses (direct charges)	***	1.00 48 000	Rs. 91,03,004 52,36,694
Itesults on direct charges only Indirect charges debitable to revenue	Profit	9 90 460	38.66,310 2,82,887
Results on both direct and indirect charges	Profit	1,37,61.902	35,83,428

Works for which Works for

8. The following statement shows the financial results of Irrigation, Navigation, and Agricultural Works during the year, compared with those of 1895-96:—

			1895-96.	1896 97.
RECEIPTS	3.		Rs.	Rs.
XXIX—Major Irrigation Provincial XXX—Minor Works an		ceipts -	15,15,315	19,09,613
Irrigation and Nat Provincial	vigation Works-	4 0 9	7,01,875	6,62,112
	Total	***	22,17,190	25,71,725
Expenditu	TRE.			
42—Major Irrigation W (Direct and ind 43—Minor Works and N	irect charges) Province	enses—	13,91,926	13,74,115
Irrigation and Na	vigation Works — irect charges) Province	oial	5,83,295	5,86,554
	Total	8 8 4	19,75,221	19,60,669
NET BRVENUE FROM I WORKS	RRIGATION AND NA	VIGATION	2,41,969	6,11,056
49—Imperial—Capital against Revenue	expenditure not	oharged	(-)9,799	(-)27,730
43—Provincial—Capital Revenue	expenditure charged	d against	3,30,457(	a) 5,45,700(b)
690192000 100			3,20,658	5,17,970

<sup>&</sup>quot;Inclusive of refunds of revenue.

(a) Includes Es. 1,63,681 on account of Major Irrigation Works classed as 43—Minor Works and Navigation, under the orders of the Government of India.

(b) Includes Es. 57,245 on account of Major Irrigation Works classed as 43—Minor Works and Navigation, under the orders of the Government of India.

- Minor Works and No Agricultural Works			1895-98. Rs.	1896-97. Rs.
RECEIPTS.  Provincial—  Collections by P.	Total	****	8,672 84,256 92,928	12,129 1,32,995 1,45,124
Expenditure.				
Provincial Contributions	 ***		6,81,987 11,928	6,77,170 9,271
	Total	***	6,93,915	6,86,441

Besides the expenditure shown above, Rs. 31,488 were expended on 33 Famine Relief, Minor Works and Navigation—Provincial, viz., Rs. 10,620 on the Bagmati, Dhaka and Tribeni Canals, and Bya Nala cut, classed as works for which neither Capital nor Revenue Accounts are kept; Rs. 4,024 on the Saran project, for which Capital and Revenue Accounts are kept; and Rs. 16,844 on Agricultural Works, for which neither capital nor revenue accounts are kept, such as Government embankments in Champaran and Nadia.

The areas irrigated by the Major Irrigation Works, during the year 1896-97, and the five previous years, are shown in the following statement:-

1	On	ISSA C	AWALS		MID	MIDNAPORE CANAL.				SONE CANALS.				TOTAL.			
Your.	Kharif.	Rabi.	Perennial.	Total.	Ehriff.	Rabi.	Perennial.	Total.	Kharif, in- cluding five- year and lung- tern leases.	Rabi, includ- ing five-year and long-term leases.	Perennial and hot-weather.	Total.	Kbarif.	Rabi.	Perennial.	Total	
1	3	3	4	8	6	7	8	9	10	11	12	18	16	15	16	-15	
up1-03	Acres. 178,453	Acres. 3,948		Acres. 177,685	Acres. 83,905	A CTOS.	Acres.	Acres. *83,973	Acres. 296,219	Acres. 177,306	Acres. 1,196	Acres. 474,723	Acres. 553,577	Acres. 181,310	Acres. 1,495		
892-93	158,025	2,694	833	100,962	91,817			991,217	274,839	116,195	9,727	410,761	594,081	198,780	10,080	603,	
808-94	100,406	2,804	216	103,526	85,768		744	*85,763	290,528	66,458	19,790	366,776	406,007	09,368	20,006	556,	
<b>894</b> -95	119,116	4,102	848	123,661	69,941	176		*70,116	254,361	41,664	17,109	317,134	446,41R	45,941	17,452	509,	
895-96	111,131	7,908	420	119,460	65,251	***	212	65,251	261,485	116,318	18,304	396,222	487,967	123,469	18,814	579,	
LE96-97	171,878	13,300	875	185,048	65,183		***	65,188	316,941	215,390	92,625	656,156	558,497	228,690	2 ',200	805,	

<sup>·</sup> Exclusive of lands surreptitiously irrugated, for which leases were granted in subsequent years.

The results of the working of each of the canal systems of the Province during the year will now be described separately, as in previous years.

## GENERAL.

In all statements showing totals of receipts or expenditure, the figures are those of the Examiner of Accounts. In dealing with details, the figures of the Commissioner, or of the Superintending Engineer, have been taken.

## ORISSA CANALS.

10. The Capital, Interest, and Revenue Accounts of these canals are given below:-L-CAPITAL ACCOUNT.

HEADS OF ACCOUNT.		Outlay during 1896-97.	Outlay to end of 1896-97.
1		2	8
I.—Works II.—Establishment III.—Tools and plaut IV.—Suspense accounts Loss by exchange	000	Rs. 9,945 2,059	Rs. 1,87,20,552 46,54,054 20,65,399 34,779 2,68,070
V Less - Receipts on Capital Account	•••	15,409 514	2,57,42,854 86,751
Net total Direct Charges	•••	14,895	2,56,56,103
IMPRECT CHARGES.  Capitalization of abatement of land-revenue  Leave and pension allowances	• • •	288	33,233 5,47,693

No new work of any importance was done during the year. The Kendra-para Extension Canal was seriously breached by the high flood of July-August 1896, and it has been raised and strengthened. The work was in progress at the end of the year under review. The chief work remaining to be done for the Orissa Canals is the construction of permanent outlets.

## 2.-INTEREST ACCOUNT.

Total Indirect Charges

Interest charges to end of 1895-96 2,07,13,551 Ditto for 1896-97 10,25,946 . Total 2,17,39,497

3.-REVENUE ACCOUNT-(Actuals).

288

5,80,926

	Expen	DITURE-		Rece	EIPTS.
Particulars.	During 1895-96.	During 1896-97.	Particulars.	During 1895-96.	During 1896-97.
1	2	3	4	6	6
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.
1.—Works, mainten-	3,61,572	3,74,502	Water-rates	2,24,648	2,46,777
II.—Revenue manage-	80,059	89,913	Navigation Miscellaneous	1,68,378 24,196	1,94,100 33,840
Total Direct Charges	4,41,631	4,64,475	Total	4,17,222	4,74,217
			Less—Refunds of revenue.	418	1,270
INDIRECT CHARGES	80,764	31,268	Net total receipts Deficit	4,16,804 55,591	4,72,94 <b>7</b> 22,796
Total Working Expenses	4,72,395	4,95,748	Total	4,72,395	4,95,743

Norz.—The details by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 12 following.

There was an increase of Rs. 56,143 in the receipts, and of Rs. 23,348 in expenditure, the result being a deficit of Rs. 22,796, against Rs 55,591 in 1895-96 and Rs. 1,50,975 in 1894-95.

11. The following statement compares the earnings with the outlay for the last two years. The term "earnings" as applied to Irrigation denotes the assessed water-rate value of the Irrigation effected during the year; as applied to Navigation it denotes the amount of tollage assessed during the year, together with the actual realizations of miscellaneous revenue charged to Navigation. The miscellaneous earnings are the actual receipts during the year under this

			1895-96.	1896-97
Earnings. Irrigation Navigation Miscellaneous	•••	•••	Rs. 1,71,025 1,71.472 24,196	Rs. 2,63,420 1,95,418 33,340
To Deduct refund	tal		3,66,693 418	4,92,178 1,270
Net earnings Outlay	• • •	•••	3,66,275 4,72,395	4.90,908 4,95,743
Net deficit	0 0 7	•••	1,06,120	4,835

[ ABUINGS.

12. The revenue receipts and working expenses for the last ten years are tabulated below:-

Particulars.	1887-88.	1888-89.	1889-90.	1890-91.	1891-93.	1692-93.	1898-94.	1894-95.	1895-96,	1894.
1	3	8	.4	5	6	7	8	9	10	1
REGRIPTS.	Re.	Ra.	Ra.	Re.	Ra.	Re.	Re.	Re.	Ra.	Re
1										
Nater-rates	1,37,869 71,064 14,171	1,81,365 77,968 14,242	1,99,844 69,682 15,747	2,09,808 1,21,465 13,708	2,17,250 1,85,998 17,843	3,52,360 1,18,767 26,532	2.09,542 1,48,911 28,122	1,08,550 1,15,201 24,351	2,24,648 1,68,378 24,196	246 1,99 33
Total	2,23,044 365	2,43,515 221	8,04,223 90	3,45,012 76	8,71,001 79	4,97,658 283	8,76,575 1,210	8,33,072 797	4,17,222	4,71
Total recei t	2,22,679	2,43,294	3,04,124	3,44,936	3,70,928	4,97,375	3,75,363	3,32,345	4,16,804	4,7
Working Expenses,  Direct Charges.										
REPAIRS—										
Works (extensions and improvements)  Espairs  Establishment, including Di-	2 10 980	2,36,094	3,31,068	2,22,630	5,001 1,70,687	9,123 2,30,360	29,355 2,36,368	6,547 3,28,253	4,768 1,95,059	3,1
rection and Accounts	98,153	70,201 21,156	1,09,484	1,32,859 13,051	1,19,775	1,20,391 19,437	1,84,046 84,801	1,09,706 24,589	1,39,684 23,081	1,3
Total	4.00.004	8,28,051	8,60,224	1,225 3,70,673	3,22,436	3,79,311	4,14,566	8,69,087	3,61,572	3,7
I.—REVERUS MANAGEMENT—										
Irrigation establishment	40,300 15,125	43,161 15,734	85,502 15,671	52,591 16,119	57,074 16,506	78,996 16,917	73,968 16,840	69,681 17,095	63,239 16,820	
Total	55,425	58,895	71,373	68,710	73,580	95,913	90,828	86,776	80,059	
Total Direct Charges	4,80,949	3,66,946	4,31,507	4,39,383	8,98,016	4,75,224	5,05,394	4,55,813	6,41,631	4,1
Indirect Charges.										
pitalized abatement of land- revenue	21,601	18,078	25,313	28,220	27,070	80,288	80,083	27,507	30,764	
Total Indirect Charges	21,501	18,073	25,313	28,220	27,070	80,283	30,083	27,507	30,764	
Total Working Expenses	5,02,450	4,95,019	4,56,910	4,67,603	4,23,086	5,05,507	5,35,477	4,83,320	4,72,395	4
Net revenue	()8,79,771	(-)1,61,726	(-)1,53,796	(-)1,22,007	(-)58,166	()0,133	(-)1,60,118	(-)1,50,978	(-)55,591	(-)

13. The following statement gives the usual information concerning the canals and distributaries for 1896-97, compared with the previous DISTRIBUTA-RIES. year:-

					1005-96.							1	896-97,		4	
Names of Canada.	Navigable canala.	Canals for irrigation only.	Distributaries with village channels.	Area protected from flood,	Area moder command.	Area provided with distri-	Area irrigated.	Percentage of area irrigated to area provided with distributaries.	Navigable canals.	Canals for irrigation only.	Distributaries with village channels.	Area protected from flood.	Area ander command,	Area provided with distri- butaries.	Area irrigated.	Percentage of area irrigat. ed to arm provided with distributaries
1	3	8	4	5	6	7	8	9	10	11	18	13	14	15	16	17
Mahanadi Series.  Inda Isong Isapara Is with extension Imundi Impara Extension Level Canal, Range I	Miles. 51\$ 4 39 24	Miles. 28	Miles.  991 2104 3741 378 1088	75,278 97,057 129,421 27,251 66,600 8,960 80,128	75,278 97,087 101,110 63,290 51,250 7,000 48,815	Acres, 24,785 81,641 97,506 21,855 44,959  48,815	Acres.  9,896 15,776 49,489 3,283 11,214 13,859	80°93 19°31 50°76 14°80 24°99	Miles. 512 4 31 24	Miles. 28	Miles. 993 3104 376 374 1064	Acres, 75,278 97,057 129,421 27,251 65,600 8,960 80,128	75,278 97,057 101,110 53,290 51,250 7,000 48,815	Acres. 24,755 81,681 97,506 21,855 41,959 48,815	Acres. 17,505 27,509 52,577 8,167 16,820 20,543	70:71 84:17 53:98 37:37 37:41 42:08
al Mahanadi Series	1661	75	9021	483,695	433,800	819,571	103,467	32:38	1664	75	962	483,695	433,800	319,571	143,523	44:91
hmini-Byturni Scries, Level Oanal, Range II tto, do. III r Canal	121 19 61		491 701	60,000	10,000 57,500 70,000	45,047 80,987	902 10,105 4,986	29'94 13'51	12 <del>1</del> 19 61		404 702	60,000	10,000 57,500 70,000	44,047 36,987	3,084 \$6,556 11,885	60-2a 32-13
Brahmini-Byturni	38		129}	60,000	137,500	81,034	15,908	19*74	38		129‡	60,000	137,500	61,034	41,525	81'24
otal Orisea Canals	2041	75	1,091#	843,008	571,300	400,605	119,460	29'82	2014	75	1,001}	543,695	571,300	400,605	185,048*	46'19

3,019 acres of chaukidar's land which was exempted from assessment and irrigated free of charge in return for the assistance given in as

The only alterations during the year have been the addition of  $1\frac{3}{4}$  miles of distributary on the Kendrapara Canal, and the abandonment, as useless, of

21 miles of a minor distributary on the Pattamundi Canal.

14. The number of outlets which were in use during the year are given in the following table:-

Division.	Canal system.	E	ermanent outlets.	Temporary outlets.	Total.	Total area irrigated.	Average area per outlet.
1	2		8	4	5	6	7
			No.	No.	No.	Acres.	Acres.
Mahanadi			60	676	635	17.505	28
99 1 1 1 79	Machgong		82	1.070	1,152	27,909	24
Brahmini-Byturni	Kendrapara	***	164	2,643	2,807	52,577	19
	Gobri		04.0	116	116	4.514	39
		400	***	104	101	3.653	35
A 1- T-1	Pattamundi	***	8	504	512	16.820	33
Acquapada-Jajpur		100	209	313	522	20,545	.39
		***		33	33	8,084	93
	Ditto, ,, III		1	274	275	26,556	97
	Jajpur	***	494	263	263	11,886	200
	Total, 1896-97		524	6,895	6,419	185,048	28
	Total, 1895-96	•••	417	4,543	4,960	119,460	24

The increase in the number of permanent outlets is not due to construction during the year, but to old outlets having been again brought into use.

RAINFALL.

15. The average rainfall of the last five years at thirteen stations, situated within the canal-irrigated area, is shown below for the kharif and rabi seasons:—

			AVERAGE	OF THIRTEEN	STATIONS.	
		1892-93.	1898-94.	1894-95.	1895-96.	1896-97.
	1	2	8	4	15	6
Kherif season	July September October	8 08 10.71 5 66	Inches. 9:17 8:68 15:73 6:52	Inches. 16:34 0:59 6:79 6:37	Inches 8:89 15:91 8:87 5:46 38:68	Inches, 13:93 15:63 9:42 0:02
Rabi "	November December January February	2.00	0·09  0·02 0·18	3·07 0·03 0·02 0·60	041	0·03 0·01 2·87
	Whole year	F0.10	74.83	58.91	68 12	66.86

The average fall for the year was 65 86 inches, as compared with a mean average for the last 28 years of 58.46 inches. The total rainfall was above the average, but it was not well distributed. It was larger than usual in June, and it was deficient, or altogether absent, in October, when it was much wanted. The average rainfall recorded at the stations in the Central Provinces, from which the Mahanadi derives the greater part of its supply, was 66.58 inches in 1896-97, as compared with 50.99 inches in 1895-96.

FLOODS.

16. The maximum flood-levels recorded during the year are compared in the following Table with the maximum levels in 1895-96, and with the highest recorded levels:—

***			Locality.		1	396-96				1896-97.		Нифин	FI REC		ED
NAME O	MINE	•	Locality.		Date	е.		Read- ing.	De	ita,	Read- ing.	Da	te.		Read-
	1		9		3		-	6			6		7		8
10	,	(	Naraj above weir	41+	1st July	1895		90.22	25th July	1896	98:10	90th July	1899		98-10
		- 1	Do, below weir	00=	1st	9.0		90155	25th	98 000	93'10	26th	80		9810
fahanadi	200		Jobra above weir	001	10t	80	984	74-40	25th ,,	05 ***	75 75	25th .,	8.9		75 90
		{	Do, below weir	011	1st ,,	8.9	900	78160	25th	90	74165	25th	0.8		74:60
		(	Janapur above weir	601	80th .,	00	001	66.10	23rd .,	Q0 ***	08:80	26th :**	1.894	140	69.6
Brahmini	441	{	Do, below weir	- 981	30th ,,	95	204	65.80	\$3rd ,,	-04 000	67:90	28th ,,	01		48'6
		(	Acquapada above weir		30th June	01	000	-80-45	24th .,	90 141	66.90	16th	1881	,,,	96-9
lyterni	8 0 0	5	Do. below weir	***	30th ,,	9.0	***	51:40	24th	20 000	68.70	10th	00	178	63'7
ialindi	844	84+	Randia		30th August	99	+87	53'75	28th ,,	99 111	57.00	12th Sept.	1887		89.7
Katjuri	+++		Bellevue	40.	1st July	0.0		81.15	25th	89 909	83-15	25th July	1891		6819
		- (	Jagatpur above weir	***	2nd ,	9.0	212	69:30	26th ,.	25 ***	78:00	25th	1896	431	724
Beropa	* *		Do, below weir		2nd .,	0.0		68'30	25th	98	71'60	25th	30	80-	77:0

The flood in the Mahanadi was very high, and was unusually prolonged. There were also very high floods in the Brahmini and Byturni.

A certain amount of damage was done to the flood embankments, and several breaches occurred.

17. The assessed areas for the last ten years, with the yearly rainfall, are shown in the following statement:—

YEAR.		Kharif.	Rabi.	Perennial.	Total.	Rainfall.
1		2	3	4	5	6
		Acres.	Acres.	Acres.	Acres.	Inches.
1887-88		109,867	502	137	109,506	47.84
1888-89		156,319	2,779	194	159,292	49.07
1889-90	***	180,568	5,897	162	186,627	67.95
1890-91	•••	175,829	4,250	220	180,299	63.17
1891-92		173,453	3,943	289	177,685	61.03
1892-93		158,025	2,594	<b>3</b> 33	160,952	56.43
1893-94		100,406	2,904	216	103,526	74.83
1894 95		118,116	4,102	343	122,561	58.91
1895-96		111,131	7,909	420	119,460	63.12
1896 <b>-9</b> 7	•••	168,533	13,121	375	182,029	65.86
1896 <b>-9</b> 7	•••	168,533	13,121	375	182,029	

Note.—The area irrigated during the year was 185,048 acres. It includes 3,019 acres of Chaukidar's land which was exempted from assessment. (Vide paragraph 18).

18. The following statement shows the details of the assessments as of open compared with the figures of the two preceding years:—

	Rate per	1894-9	05.	1895-	96.	1896	-97.
CROP.	acre.	Area,	Amount.	Area.	Amount.	Area.	Amount.
1	2	8	4	5	6	7	8
	Rs. A. P.	Acres.	Ra.	Acres.	Ra.	Acres.	Ra.
(Flow	1 8 0	108,399	1,61,922	100,325	1,50,539	180,504	1,97,590
Kharif Lift  Dhoys (Flow	1 0 0 0 8 0 6 0 0	8,664 172	274 4,326 1,024	9,342 420	4,671 2,106	13,287 350	6,656 1,738
Personnial crope [Lift	4 0 0	171	687	***	***	24	121
Dhoya	0 8 0	)	4.400	7.000	11,588		
Rabi Flow	2 0 0 0 5 0 to 1 8 0	3,440	<b>4,429</b> 657	7,909	11,000	90+	900 gib
Dhoya	0 0 0		400	100		31	51
Unauthorised irrigation " Kharif	010	779	2,883	á D 0	040	101	000
Additional Kharif demand (Flow	900	***		1,390	2,084	20,173	35,119
the year.  Additional perennial crops   Flow		800	***	74	87	<b>4,569</b>	2,588 8
assessed after the close of Dhoya Additional rabi assessed Flow after the close of the year. Dhoya		088	***	190	999	18,064	19,565
Total		122,561	1,76,202	119,460	1,71,025	182,029	2,63,43

The total areas leased and assessed, as compared with the previous year, are shown below :-

	CROPS.			189	5-96.	1896-97.		
	V=V2.51			Leased.	Assessed.	Leased.	Assessed	
	1			2	3	4	5	
Long leases	 Season lease		***	Acres. 112,938	Acres. 111,076	Acres. 188,332	Acres, 164,147	
Sugarcane Rice, Autumn Rabi (including Unauthorized R	 Dalwa rice)	900	000	421 55 7,909	420 55 7,909	375 4,819 13,459	375 4,386 13,121	
		Total	•••	121,323	119,460	207,015	182,029	

The Superintending Engineer thus explains the difference between the areas leased and assessed:-

"It will be noticed that in the item long leases the area assessed is less than that leased by 24,185 acres. This is chiefly due to the fact that on account of the late date (middle of October) at which the applications for new leases were received, considerable areas did not in that season derive benefit from the water. The full area will come under assessment in the current year. The area of rabi assessed is also less than that leased. This is due to the fact that, owing to an unusual rise in the Byturni river in March 1897, some of the Dalwa rice in low lands which had been irrigated, was ruined, and had to be exempted from assessment.

Chaukidar's land to the extent of 3,019 acres was not assessed, free irrigation being

given in return for assistance in assessment and collection.

The area reckoned as irrigated, as given in the statement in paragraph 13, is 185,048 acres, which is the assessed area, plus the area of chaukidar's land exempted from assessment but irrigated."

DUTT OF

19. The statement below shows the duties obtained in the kharif season on each of the canals, calculated on the gross discharge at the canal heads:-

Particulars.	Kendra- para Canal system.	Taldanda Canal system	Canal,	Canal,	High-Level Canal, Range III.	0
1	2	3	4	5	6	7
1896-97   Kharif Acres Duty on gross supply Kharif Acres Duty on gross supply	72,972 48·1 60,559 56	45,306 60·5 24,905 56	20,222 49·9 13,400 60	2,743 743 <b>57</b>	23,951 44·2 9,853 101	6,178 32·5 1,661 68

The area under rabi is small, and no information is given regarding the duty in the rabi season.

The Superintending Engineer remarks that the actual duty was slightly better than shown in the statement above, since it is probable that the greater part of the area exempted from assessment for the season received water, though too late to benefit the crops.

A number of observations were also made to ascertain the duty which is obtained in irrigating rice on the supply measured at the outlet. The general result obtained was, that under ordinary conditions of soil, a supply given at the rate of one cubic foot per second at the outlet to 80 acres is quite sufficient, the supply being continuous.

20 The following are the results of the crops experiments, in the customary form, combined in one Table, for the year 1896-97:—

CROP -

	-			IRR	IGATI	ED LAN	DG.						1	UNIR	LIGAT	ED LA	NT TVO	-		
DIVISION.	Broadcast, Good and Average.  Paddy. Straw.  Paddy. Straw.  Mds. Srs. Mds. Srs. Mds. Srs. Mds. Srs. Mds. Srs.	Broadcant, God Average.		Broadcast, Good and Average,				To	Transplanted, Go		lood									
	mber	-	iuy,	100	iaw.	Number mente,	Pad	dy.	Stra	₩,	ber of	Pac	ddy. Straw.		aw.	10 m	Pag	dy.	Bie	
	Mds. Srs. Mds. Srs. E Mds. Srs. Mds. Srs.	Number o	Mds.	Srs.	Mds.	Str.	Number mente.	Mds.												
1	2	3	4	5	6	7	8	9	10	11	12	1				Z	Aus.	Srs.	Mds.	Sn
11				1	)					**	12	13	14	15	16	17	18	19	20	31
ni-Byiurni	17 29 25	29 25 24	25 10 33	61 81 50	26 2 31	10	22 20	13 28	23 45	18	17 6 24	23 20 17	27 5 36	37 22 34	35 23	10	18	19	24	30
Average per acre	71	26	6	40	. 18	11	23	7	25	16	46	20	10	34	7	10	18	19	36	89

# The Superintending Engineer explains:-

"In former returns a distinction has been made between the yield of plots classed as "good" and as "average." I have taken the general average as being more satisfactory. Our principle now is to record the yield of certain plots, and not go about making experiments here and there and recording a classification of very doubtful value: fields classed as "average" by one observer frequently giving a better yield than fields on similar soil classed as "good" by another observer."

The following Table gives a general abstract of the result of all the experiments made in the year under review:—

Divisions.	Number of Experiments.	FROM 1R	GE OUT- ER ACRE RIGATED FRIGHED	Number of Experiments.	TURN P PROM GATRI	GR OUT- ER ACRE UNIRRI- D LAND ED DEY,	TOR OF	OULTIVA- OUTTURN REIGATED	VALUE TO TOR OF FROM UNI	() I' THEFT I' I SE
•		Rice two-	Straw.	Number of	Rice two- thirds of paddy.	Siraw.	Rice at 21 seers per rupee,	Straw at 9 maunds per rupee.	Rice at El	Straw at 9 maunds:
1	2	3	4	5	6	7	8	9	10	21
Mahanadi Brahmini-Byturni Akhoyapuda- (Cuttack Jajpur, { Balasore	17 39 23 3	Mdv. 19 16 16 16	Mds. 42 29 50 80	17 15 23 1	Mda. 16 13 12 17	Mds. 38 24 34 39	8s. 36 30 20 30	Rs. 5 3 6 6	Ra. 30 25 23 38	Re.
Manager for 1901 00		16:60	38	86	16	33	32.4	4.8	2616	3.7
1892-93 1898-94 1898-96	***	12:63 11:30 19:59 17:	19:26 24:01 24:56 50:38 87:	000	12:15 9:08 9:06 17:68 15:	13.70 17.33 21.62 37.91	16:60 20:40 25:20 32:86 26:	2°14 2°67 2°73 5°00	12:15 22:06 20:25 29:62 23:	1'59 1'92 2'40 4'34

## The Superintending Engineer writes:-

"The average yield obtained is, for land irrigated from the canal, just the same as in the previous year, and for land not so irrigated, slightly less.

The yield of the canal-irrigated land may be taken to be that of a full average, but not a bumper crop. The lands not irrigated from the canal on which experiments have been made, are so situated, that in many cases they derive indirect benefit from the canal.

made, are so situated, that in many cases they derive indirect benefit from the canal.

In the drought of October-November 1896, they were either irrigated by lifting from natural channels or collections of water which receive the surplus from lands under canal irrigation, or they were benefited by the moisture supplied by percolation. In valuing the yield I have taken the average price obtained locally by the cultivator at time of harvest, which is of course considerably less than the price quoted in the Gazette for sales in towns and markets. Reckoned thus, the average value was in favour of the canal-irrigated lands by about Rs. 6 per acre.

Several experiments were made to test the loss in weight of paddy by drying after the crop is reaped, and the results showed that the allowance now made, vis., 7 th, is fairly correct, when the crop is not damper than usual at time of reaping. Perhaps 10th would be a safer allowance

Experiments were also made to test the yield of rice from paddy, and these showed that if the paddy is quite dry, the proportion which has been assumed, vis., 3rd, is fairly correct.

We have commenced to make these experiments more systematically, selecting certain plots to be experimented on each year so as to get the true average yield over a number of seasons, and recording the incidents of the season which may affect the yield."

Taking the average of the experiments on both "transplanted" and "broadcast" rice crops on irrigated lands, the results are as follows, compared with those obtained in the Sone Circle:-

			Quality of	OUTTURN	PER ACRE.
			crop.	Paddy maunds.	Straw maunds.
	1		2	8	4
Orissa	• • •	•••	Good and average.	24.2	83.0
Sone	•••		Good and average.	27.6	54-5

The average value of the rice outturn from the irrigated lands in Orissa was Rs. 32 4 per acre, while from the unirrigated lands it was Rs. 26.6 per acre. 21. The demands, collections, and balances of water-rates are shown

AND COLLEC below for the last five years :-

YBARS.	Amount outstanding at com- mencement of year.	Amount falling due during the year.	Total for recovery.	Cash realizations	Remitted or written off.	Balance at the end of the year.
1	2	8	4	5	6	7
1892-93 1893-94 1894-95 1895-96 1896-97	 89,816 63,350 32,140	Rs. 2,61,023 1,90,824 1,68,449 2,31,727 2,35,517	Rs. 4,94,727 2,80,640 2,31,799 2,63,867 2,69,860	1,98,550 2,24,648	Rs. 52,543 7,748 6,109 4,876 18,486	Rs. 89,816 63,350 32,140 34,543 4,597

The outstanding balance is very satisfactory; it has been reduced from Rs. 24,343 to Rs. 4,597. The Superintending Engineer remarks that the collection has been good, and the adjustment of practically the whole of the arrears is satisfactory.

Of the total, Rs. 18,486, remitted and written off, Rs. 17,504 were classed as remission, and Rs. 982 written off as irrecoverable. Including miscellaneous revenue, the total amount realized by the Deputy Collector was Rs. 2,63,800

as against Rs. 2,43,076 realized in the previous year.

22. The amount of certificate work done in each district is shown in the following statement :-

		Curi	PACE.			BALAS	ORE.			Tot	A.b.
	1896	i-9d,	1896	-67.	1890	5-96.	180	B-97.	1898	-96,	180
	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.
1	3	8	. 6	5	6	.7	8		10	11	13
asce for disposal—  1. Cases pending at the close of the preceding year	125	Ra. 1,048	165	P.a. 1,823	3	Ma. 17	Re.	•••	187	Ra. 1,059	165
2. Cases instituted during the year	2,227	17,079	1,881	18,894	270 272	2,247	168	1,286	2,624	20,968	-
nees disposed of—	14 2,173	74 16,824	14	101 14,598	372	2,247	***165	1,288	14 2,445	74 19,071	9,138
2. Wholly satisfied Total	2,187	16,696	1,984	14,694	273	3,847	168	1,286	2,459 165	19,146	-
Balance	165	1,818	3	28	***	***	000	000	100	1,000	-

There has again been a satisfactory reduction in the number of certificates

instituted during the year.

23. The following Table shows the number of objections filed against Complaints. assessment and disposed of during the year:-

	Onz	IMARY R	BMISSION S	J.	OTHER	Compla	INTS.	during	year.	
Division	during r and from year.	Dispos	sed of—		during and from year.					
	Received d the year pending previous y	Remission allowed.	Remission refused.	Pending.	Received dithe year pending previous y	Disposed of	Pending.	Total received the year.	Pending at end of	
1	2	3	4	5	6	7	8	9	10	
Mahanadi Brahmini-Byturni	No. 246 155 481 841	No. 164 62 195 176	No. 51 88 286 169	No. 81 6	No. 346 70 104 107	No. 285 67 103 104	No. 61 8 1	No. 520 216 570 439	No 92 8 J	
TOTAL	1,228	496	584	43	627	559	68	1,745	311	

The following is a statement of the amounts remitted and written off REMISSIONS. as irrecoverable during the year, on account of water-rates, &c., compared with the figures of the previous year:-

Revisi	on of Assessme	nt.		
(a) Unirrigated crops (b) Damaged ,, (c) Chaukidar's jagir	000		895-96. Rs. 1,409 763 40	1896-97. Rs. 16,101 833 110
	Total		2,212	17,044
(d) Waste-land (e) Land occupied by canal (f) Twice assessed (g) Change of rates (h) Erroneous assessments (i) Loss of crops (i) Error in addition	Remissions.	000	64  14 796 462 71 	28 65 819 36 9 3
Irrecoverable demands	Written off.		1,257	982
Deduct remissions under Miscollane		***	4,876	18.486
Net Rem	issions		4,876	18,486

The amount Rs. 16,101, shown above under (u) unirrigated crops, includes Rs. 15,499, remitted on lands that came under lease late in October, and conse-

quently did not derive benefit from the water.

25. Three appeals to the Collector against orders of the Divisional Canal Appeals
Officer, Akhoyapada-Jajpur Division, were allowed. No appeals were presented from the other divisions. A certain number of cases are also dealt with by the Superintending Engineer, who has the power of revising the proceedings of Divisional Canal Officers. In the year under review the proceedings were called for in five cases. In three of these the assessments were cancelled or modified, and in two the Superintending Engineer declined to interfere.

26. In the Revenue Division one case was brought for opposing a process CARDE LILL peon in a certificate case, and in the Akhoyapada-Jajpur Division one case (B. C.) of

was instituted for attempting to cut a flood bank, and another for cutting a distributary bank. In all cases a conviction was obtained.

27. The cost of the Revenue Establishment for the last five years is shown below :-

	1892-93.	1893-94.	1894-95.	1895-96.	1896.97
1	2	3	4	5	6
Establishment under Deputy Collector.	Rs.	Rs.	Rs.	Rs.	Re.
Permanent establishment, including travelling allowance Temporary establishment Contingencies Headmen's fees  Establishment under Executive Engineer.	\$1.086 16,020 4,098 20,040	43,981 11,580 3,811 3,464	43,679 11,166 3,206 80	42,735 6,161 2,457 172	43,840 14.812 2,634 45
Permanent and temporary establishment, in- cluding traveiling allowance Water-regulation establishment	5,930 3,274	7,874 3,278	8,568 2,9×2	8,905 <b>2,</b> 809	8,623 2,821
Total	80,448	73,988	69,681	63,239	72,778
Collections of water-rates and miscellaneous revenue by the Canal Revenue Department	3,73,224	2,26,851	2,12,178	2,43,076	<b>2,63</b> ,800
Percentage	21.0	32.6	32.8	26.01	27.59

The increase occurs mainly in the temporary establishment employed in the revenue division, and is due to the large areas which had to be assessed during the last half of the year.

28. The following statement shows the receipts from "Navigation" for NAVIGATION. the last five years :-

			CA	DANDA NAL STEM.	C	DRAFABA ANAL STEM.	Cz	I-LEVEL ANAL. NGE I.	CA	GR II.	CA	LEVEL NAL. E III.		PUR	To	TAL.
Y	Bar.		Number of miles open.	Tollage receipts.	Number of miles open.	Tollage receipts.	Number of miles	Tollage receipts.	Number of miles of wiles	Tollage receipts.	Number of miles open.	Tollage receipts.	Number of miles open.	Tollage receipts.	Number of miles open.	Tollage receipte.
	1		8	3	6	6	6	7	6	9	10	11	12	18	14	15
801-92 802-93 803-94 894-95 896-97	000 000 111 000	***	No. 558 653 653 653 653 653	Rs. 4,357 6,524 14,369 16,024 15,911 28,360	No. 78 78 78 78 78 78	R4, 98,403 73,500 83,905 65,690 1,04,522 1,04,986	No. 43 33 33 33 33 33	Ra. 12,854 15,278 14,616 10,587 15,881 20,031	No. 124 124 124 124 124 124	Rs. 3,027 3,165 3,601 2,561 3,690 3,613	No. 19 19 19 19 19	Ra. 1,775 1,761 2,026 1,507 1,989 935	No. 61 61 61 61 61	Rs. 290 275 508 451 424 311	No. 2044 2044 2044 2044 2044	Ra. 1,20,761 1,00,500 1,10,113 96,229 1,43,617 1,58,243

Exclusive of the receipts from Transport Service and him of boats and steamers.

The receipts are considerably greater than in any previous year, and, as the Superintending Engineer remarks, increased navigation receipts have the advantage over those from irrigation that they are attended with little or no extra expense.

The Superintending Engineer writes:—

The trade in rice which was very active in the previous year, was maintained notwithtanding the failure of the crop in parts of Orissa. The price, though very high for Orissa,

was cheaper than almost anywhere else in Upper India, and there was a good margin for trade profits. The traffic in other food-grains suffered, however, from the bad harvest. Probably these grains were consumed locally to a larger extent than usual.

The increases under heads, Metals, Building Materials and Coal, are due to the railway

The traffic on the Orissa Canals is detailed below for the last ten years, the transport service being excluded:-

	1887-88.	1888-80,	1869-90,	1890-91.	1891-92.	1892.93.	1693-94,	1894-95.	1895-96,	1898-97.
1	2	3	4	5	8	7	8	9	10	11
Number of riles open No. coll collections Rs. tate of toll per mile fumber of boats plying	1701 66,628 300:7	177 60,830 394·5	177 78,030 410 9	177 1,06,961 604°3	2041 1,20,761 589'8	204‡ 1,00,503 400·8	1,19,115 581.7	204} 96,220 469'9	2042 1,42,617 696'5	044 1,58,262 772°0
cargo and passengers No. onnago of cargo and pas-	12,084	11,475	11,937	12,995	12,946	13,325	14,112	12,198	15,170	18,839
senger boats Tons stimated value of eargo, including rafts Ra.	175,996	153,674	186,019	250,243	266,601}	239,583	259,444}	197,666	287,180	326,314
including raits Rs.	50,32,003	47,40,957	48,68,255	85,21,551	95,49,756	84,00,728	71,69,457	51,72,772	77,60,288	1,00,14,777

The total receipts from the Transport Service amounted to Rs. 35,838 against Rs. 25,761 in the previous year, showing an increase of Rs. 10,077. The cost of working the Transport Service, excluding the charge of Rs. 8,900 for tollage on Government vessels, which is practically a receipt, was Rs. 14,514 and the service therefore worked at a profit of Rs. 21,324.

There has again been a very satisfactory increase in the traffic, which is

largely due to the railway works now under construction.

The increased charges are due to the increased traffic.

The charges during the year for repairs to steamers and accommodation bcats amounted to Rs. 5,030 and were included under the general head of Tools and Plant.

30. The following statement shows the Miscellaneous Receipts in detail MISCRELLA. for the last five years:-

RECEIPTS.

DETAILS.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97
. 1	2	3	4	5	6
Sale of water Plantations Other canal produce Rent of buildings Rent of lands , fisheries Miscellaneous   Cost of process Sales of old materials Other itoms	Rs. 158 1,960 1,123 4,749 9,291 972 7,420 856	Rs. 46 1,244 528 4,892 9,247 1,191 4,951	Rs. 112 2,514 492 5,168 9,248 740 5,593	Rs. 79 2,520 1,290 4,273 11,129 1,740 2,478 96 591	Rs. 39 2,998 2,092 5,139 11,052 1,187 2,041 48 8,744
Total	26,532	23,122	24,321	24,196	33,340

The increase shown in the receipts is thus explained by the Superintending Engineer:

"The chief difference from the return of the previous year is owing to a sum of Rs. 8,312 included in the Brahmini-Byturni Division under head Other Items. This represents the balance at credit of the miscellaneous manufacture account of the Johra Workshops after providing for engine and general charges and for repairs to machinery. It is of course only a profit to Government to the extent to which it was obtained for work done for private parties."

Main-Prwanch and Repairs.

31. The expenditure on maintenance and repairs during the year is shown in the following statement, compared with the expenditure in 1895-96 and in 1894-95.

			- 1	
		1894-95.	1895-96.	1896-97.
1		2	8	4
Extension and improvements  Head-works  Main and branch canals  Distributaries  Drainage and protective works  Cost of working Transport Service	000	Rs. 6,547 59,800 1,21,928 27,950 5,480 13,094	Ra. 4,768 57,291 83,277 32,694 8,946 12,851	Ra. 5,859 52,859 1,10,116 31,658 14,734 8,326
Total	•••	2,34,799	1,99,827	2,23,552

There was an increase of Rs. 23,725 in the cost of maintenance and repairs, as compared with 1895-96. The increase is chiefly due to silt clearance and repairs to canal banks. The expenditure on extensions and improvements was mainly incurred in revetting with stone portions of the banks of the Kendrapara and Gobri Canals, to protect them from the wash caused by steamers, and opening a channel at the north end of the Brahmini weir to allow of water being taken into natural channels for the irrigation of Dalwa rice.

HAAD-WORKS

32.	The cost	of	maintaining	each	of	the	weirs	18	shown	below:	_
-----	----------	----	-------------	------	----	-----	-------	----	-------	--------	---

Number of weir		Length.	E	<b>xpan</b> di <b>t</b> o	RB.	RATE P	ER BUNNI	NG Poor,
NUMBER OF WEIR	•	Length.	1894-95.	189 <b>5-9</b> 6.	1896-97.	1894-95.	1895-96.	1896-97
1		2	3	4	5	6	7	8
		Feet.	Rs.	Ra.	Ra.	Rs.	Rs.	Ra.
Naraj		8,833	2,505	3,284	3,889	0.65	0.86	1.01
Mahanadi	•••	6,349	16,144	19,371	14,018	2.54	8.05	2.21
Beropa	• • •	1,980	5,980	6,001	7,595	8.00	3.03	3.84
Brahmini	***	4,000	1,906	2,059	1,119	0.48	0.51	0 28
Pattia		783	4,776	4,437	8,200	6.10	£•67	4.09
Byturni	* 0 0	1,026	2,810	1,834	4,975	2.74	1.90	4.13
Burra	•••	526	15,306	8,454	5,311	29.10	16.07	10.10
Total of all weirs		18,497	49,427	45,440	40,107	2 67	2.40	2.11

The expenditure on the weirs was about normal with the exception of the Byturni Weir, on which Rs. 4,975 were spent in carrying out special repairs to the floor which was damaged by the high flood of 1896.

33. The following statement shows the expenditure on each canal for the last three years :-

CANALS.

MAIN AND E	BRANCH CANAL	a.		1	EXPENDITO	RK.	RA	TE PER MI	LIR,
				1894-95.	1895-96.	1896-97.	1894-95.	1895-96.	1896-97
	1 .			2	3	4	5	6	7
			Miles.	Ra.	Ra.	Rs.	Ra.	Ra,	Ra.
Kendrapara Canal	***	400	89	42,458	25,856	85,688	1.089	663	
Pattamundi Canal	416	081	47	18,460	4,911	7,433	286	104	915
Gobri Canal	000	***	15	10.182	5,809	6,791	675	354	158
Kendrapara Extension Can	ıl	/	15	4,970	899	1,883	331		453
Bobri Extension Canal	***	000	9	7,471	2,590	2,919	880	60	122
laldanda Canal	4.61	994	513	16,591	18,307	18,161		288	324
dachgong Canal	***	***	32	7,134	6,324		614	354	349
ligh-Level Canal, Range	I		33			9,092	228	198	284
Ditto, do, I	т	***		9,283	10,435	15,085	281	316	457
Ditto, do. II		1.9 1	121	8,209	1,848	2,455	257	148	196
	1		19	5,792	5,178	4,553	306	278	240
ajpur Canal	***	60	61	1,024	1,098	1,411	157	169	217
Total Ma	in Canals		2793	1,21,524	82,755	1,05,461	477	296	377

The Kendrapara Canal was closed for a longer period than in the previous year, and a large quantity of silt was cleared. The banks were also raised where too low, and injury caused by the wash of steamers was repaired.

The increased expenditure on the High-Level Canal, Range I, is attributed partly to payment for weed-clearing done in the previous year, and partly to heavy outlay in repairing the planking of canal bridges.

Substantial repairs were carried out to the buildings on the Machgong Canal.

34. The maintenance cost of the distributaries, per mile, is shown below. The average rate of Rs. 31 shows a satisfactory decrease, as compared with the average mileage rates of 1895-96 and of 1894-95, which were Rs. 33 and Rs. 36, respectively :-

	1894-96.				1895-96.			1896-97.		
	Milos,	Cost,	Per mile.	Miles.	Cost.	Per mile.	Miles.	Cost.	Per mile	
1	2	3	4	5	6	7	8	9	10	
DISTRIBUTARIES.	No.	Rs.	Rs.	No.	Ra.	Re.	No.	Ra.	Re.	
Kendrapara Canal System, including Gobri and Gobri Extension	357 71 6 1223 131 8	10,340 - 3,948 4,656 4,013	29 85 38 31	395 993 2104 1314	14,869 2,389 8,202 2,784	51 24 89 11	412 993 210g 131g	10,871 2,485 8,662 2,916	26 25 41 22	
Ditto, do. 111	401 871	8,281 1,710	66 46	49§ 109	1,772 2,693	36 27	401 1061	2,447 4,062 221	49 88	
Total	7688	27,948	36	905}	32,095	83	1,0098	31,664	31	

The lengths of distributaries in the above are those which have been brought on the revenue account, and consequently differ from the lengths given in paragraph 13 which include all so far advanced as to be fit for use, whether the capital account is still open not

35. The total expenditure on Drainage and Protective Works was Rs. 18,876, against Rs. 8,945 in 1895.96. It includes the up keep of 1783 miles of flood embankments, and 2794 miles of drainage cuts. The greater part of the expenditure was incurred on repairs to flood embankments, and was due mainly to the effects of the high floods of the year.

DREDGING AND SILE-CLEARING.

36. The following Table shows the cost of silt clearing and dredging during the year 1896-97:—

	8m	CLEARIN	G.	D	REDGING.	
Name of Canal.	Quantity in cubic feet.	Rate per 1,000 oubic feet.	Cost.	Quantity in cubic feet.	Rate per 1,000 oubic feet.	Cost.
1	2	8	4	5	6	7
Taldanda	28,900	4.26	Rs. 123	6,83,149	7.72	Re. 5,271
Machgong Kendrapara Extension  Gobri Extension	41,09,628 1,40,523 4,31,250 1,70,714	2·50 2·00 2·23 2·80	10,274 281 962 478	4,55,334 32,162 35,077 14,128	6·00 6·00 6·50 7 00	2,732 193 228
Pattamundi H. L. Canal, Range, I	68,523 1,04,495	4·19 5·44	290 571	61,829	5.12	\$35
Jajpur " III	***	* * *	***	***	•••	***
Total, 1896-97	50,54,033	2.57	12,979	12,81,679	6.91	8,858
Total, 1895-96	64,26,172	2.42	15,577	10,48,964	4.71	4,949
	Cost of ra	ising edging.		Cost of re Silt dre		
Taldanda Kendrapara, Kendrapara Ex- tension, Gobri and Gobri Extension Canals	6,83,149 5,36,701	2·90 4·90	1,976 2,600	6,83,149 5,36,701	4.82	3,295 652

The increased expenditure on dredging is due to the long flood in the Mahanadi.

The Superintending Engineer remarks that special attention is being given to measures which should prevent, or at all events lessen, the deposit of silt in the heads of the canals.

PLANTATIONS.

. 37. The following Table shows the state of the plantations for the last two years:—

DIVISION.	1895-96.	1896-97.	Difference.
1	2	8	4
Mahanadi Brahmini-Byturni Acquapada-Jajpur	No. 36,954 73,193 26,183	No. 34,829 72,664 26,287	No. (-)2,125 (-)529 (+)104
Total	1,36,330	1,33,780	(-)2,550

The decrease in the Mahanadi Division is attributed mainly to the loss of a large number of seedlings.

The receipts from plantation amounted to Rs. 2,998 against Rs. 2,520 in the previous year. The expenditure under this head chargeable to the Capital Account was Rs. 636, and to the Revenue Account, Rs. 181.

## MIDNAPORE CANAL.

The Capital, Interest, and Revenue Accounts of this canal are given below:-

1.-CAPITAL ACCOUNT.

CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1896-97.	Outlay to the end of 1896-97.
1	2	8.
	Rs.	Ra.
Direct charges  Less—Receipts on capital account	6,060	83,07,281 31,558
Total direct charges	6,060	82,75,723
Indirect charges	159	1,84,529

The capital outlay was incurred on the construction of a new dock at Mohunpur, which was still in progress at the end of the year.

Owing to the great difficulty experienced with water in the dock excavation, a revised estimate, amounting to Rs. 16,216, was recently sanctioned for completion of the work. The outlay up to the end of March 1897 was Rs. 11,712.

### 2.—INTEREST ACCOUNT.

Rs. Interest charges to end of 1895-96 77,31,021 Ditto for 1896-97 8,80,908 ... Total ... 80,61,929

INTERRECT

3.—REVENUE ACCOUNT (Actuals).

REVESUE

	Expendi	TURE-		RECE	RECEIPTS-		
PARTICULARS.	During 1895-96. During 1896-97.		PARTICULARS.	During 1895-96.	During 1896-97		
1	2	8	4	5	6		
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.		
I.—Works, mainten- ance, and repairs II.—Revenue manage- ment	2,37,163 28,644	1,91,864	Water-rates Navigation Miscellaneous	98,059 1,43,918 22,017			
Total direct charges	2,65,807	2,22,887	Total	2,63,994	2,79,757		
INDIRECT CHANGES	10,306	10,472					
Total working expenses Net revenue	2,76,113 (—)12,480	2,33,309 45,358	Less-Refunds of reve	861	1,090		
Total	2,63,633	2,78,667	Total receipts	2,63,633	2,78,667		

Norm.—The details by heads of expenditure for the year 1895-96 and nine preceding years will be found in the table given in paragraph 40 following.

There was an increase in the receipts from all sources and a decrease in expenditure, the net result being a profit of Rs. 45,358, as compared with a defect of Rs. 12,480 in the provious year.

Esparaci.

deficit of Rs. 12,480 in the previous year:

39. The earnings of the Canal, i.e., the assessed water-rate value of the irrigation done during the year, the assessed tollage plus the actual miscellane-ous receipts under Navigation, and the actual receipts under the head Miscellaneous, are compared below with the actual outlay:—

EARNINGS.	1895-96.	1896-97.
3 <sup>7</sup>	Re.	Rs.
Irrigation Navigation Miscellaneous	1,42,699	1,05,661 1,51,176 24,924
Total Deduct refunds of revenu	. 2,68,827 e 361	2,81,761 1,090
Net earning Outlay	. 2,68,466 . 2,76,113	2,80,671 2,33,309
Net earned profit	. (-)7,647	47,362

40. The Revenue Receipts and Working Expenses of the Midnapore

PARTICULARS.	1807-88.	1888-89.	1889-90,	1890-91.	1891-92.	1899-93,	1893-94,	1004-95.	1895-96,	1896-97,
. 1	3 .	8	4	5	6	7	8	9	10	11
RECEIPTS	Ra.	Pa.	Rs.	Ra.	Ra.	Ra.	Ba.	Ra.	Re.	Ra.
Water-rates	90,837	91,016	1,16,424	1,15,436	1,82,961	1,49,057	1,65,630	1,26,882	96,069	1,00,61
Navigation	1,26,574	1,40,480	1,48,166	1,12,751	1,32,572	1,14,14)	1,14,994	1,85,492	1,43,918	1,54,21
Miscellaneous	16,967	11,299	13,016	9,004	19,147	16,979	94,319	22,308	12,017	26,92
Total	2,34,378	2,51,795	2,77,004	2,37,196	2,84,700	2,60,177	3,04,943	2,94,682	2,63,994	2,79,75
Less—Refunds of revenue	468	265	181	206	8	170	174	259	361	1,066
Total receipts	2,33,925	2,51,610	2,77,423	2,36,991	2,84,697	2,80,001	3,04,769	2,94,423	2,63,639	3,78,000
WORKING EXPENSES. DIRECT CHARGES.										
1.—Works, maintenance, and repairs.									.,	
Works (extensions and improvements)	***	•••	***	***	444	8,786	8,136	11,008	0,785	9,056
Repairs (including com- pensation)	1,31,181	1,06,139	1,13,507	1,05,038	1,41,262	87,480	1,03,178	1,04,508	1,85,047	1,08,155
Betablishment, including direction and accounts	46,467	36,111	29,758	30,602	36,278	84,031	22,801	20,910	44,967	43,826
reols and plant	31,409	24,385	27,612	23,929	51,761	29,885	38,768	30,500	51,964	30,887
Total	2,09,087	1,66,585	1,70,872	1,65,580	2,28,301	1,55,782	1,72,085	1,65,104	2,37,163	1,91,950
II.—Revenue manage-										
Irrigation establishment	22,797	25,927	21,903	22,800	21,275	23,011	90,215	28,861	24,532	22,063
Navigation ditto	7,750	7,680	7,719	7,711	7,750	7,658	7,687	8,080	8,112	8,810
Total	80,556	88,477	29,022	80,580	29,025	30,669	28,072	80,941	28,044	30,973
Total direct charges	2,30,613	2,00,002	2,00,494	1,00,040	8,87,324	1,80,401	2,01,057	2,16,048	2,03,807	2,09,137
Indirect charges	10,783	9,742	8,312	9,811	0,002	9,140	7,138	6,510	10,300	10,473
Total working expenses	2,50,896	2,00,804	2,68,406	2,08,680	2,06,326	1,95,550	2,08,190	2,24,564	9,70,113	3,33,509
	(-) 16,471	41,706	68,617	28,131	18,571	84,451	96,570	60,859	(-)19,480	45,358

# SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897. 4781

41. In the following statement are tabulated particulars concerning the CANALS AND canals and distributaries. There has been no change in the lengths of canals, DISTRIBUTA
OF IN the following statement are tabulated particulars concerning the CANALS AND CANALS A

				18	96-97.						-	194	95-96.				and the
ambor Canal.	Navigable canala,	Canals for irriga-	Distributaries and village channels.	Area protected from	Ares under command.	Area provided with distributaries,	Area irrigated.	trigated to area provided to area distributance	Navigable canala.	Canals for irriga-	Distributaries and village channels.	Area protected from	free under command.	Area provided with distributanies,	Area irrigated.	Percentage of area irrigated to area provided with	RM A RES
1	3	ğ	4	5	6	7	8	9	10	11	13 -	13	14	15	16	17	20
Midnapore weir Panchkurah Tidat reaches, ges I and 11	Miles. 44 12 16	Miles, 64 12 16	Miles, 260'30 35'25 18'00	Acres, 294,400 112,640 30,080	Acres. 180,000	Acres, 100,000 23,000 2,000	Acres. 66,334 7,763 1,086	Acres, 50'33 33'75 54'30	Miles, 44 12 16	Miles. 46 18	Miles. 200'30 35'25 18'00	Acres. 294,400	Acres. 180,000 {	Acres, 100,000 23,000	Acres, 56,887 7,284 1,130	Arres, 56:48 81:45	
Midnapore	72	72	313.88	437,120	180,000	125,000	C5,183	52'14	72	72	313:55	437,120	180,000	125,000	65,251	52*20	

Nors.-Of this the length of distributaries is 283-97, and village channels 29-58.

The percentage of area irrigated was almost the same as that of the previous year.

42. The following statement shows the areas commanded by the distributaries, and the number of outlets in use:—

PORTION OF CANAL.	Total length of channel.	Area com- manded.	OF TEN	MBBR MPORARY LETS.	NUMBER OF PERMANENT OUTLETS.	
			1895-96.	1896-97.	1895-96.	1896-97
1	2	3	4	5	6	7
Under Midnapore weir Do. Panchkurah weir Do. Tidal reaches, Ranges I and Li	Miles, 230·72 35·25	Acres. 100,000 23,000	1,032	998	43	37
Total	283-97	125,000	1,206	998	44	87

There was a decrease in the number of both temporary and permanent outlets, owing to the better regulation and sizing of the outlets.

43. The average rainfall of the last five years at four stations within the RAINFALL.

canal-irrigated area is shown below:-

STATIONS.		1892-93.	1898-94.	1894-95.	1895.98	1896-97.	AVERAGE O	
						No. of years.	Average rainfall	
1		3	8	4	6	6	7	8
		faches.	Inches.	Inches.	Inches.	Inches.		Inches.
Midnapore Panolikurah	***	44:44 39:95	66:81	43.99	48:39 81:54	60-17	28	65.21
Luchmapur	100	47.19	74'18	54.53	39.50	61:61 53:92	28 12	55·28 56 45
Mowah	***	33 60	76.67	53.77	27.12	54'64	12	62.29
Average	***	41 28	70.63	66.90	36.66	55.08	******	54.81

Though the rainfall was much greater than that of the preceding year, it was unfavourably distributed. Good rain fell from May to September, and no difficulty was felt by the cultivators either in sowing or transplanting paddy; but there was an entire cessation of rain from the end of September. The crops consequently withered in most places, especially in the unirrigated tracts, and the outturn was very poor.
The rainfall in the kharif season was distributed as follows:—

	Midna- pore.	Panch- kurah.	Luchma- pur.	Mowah.	Average, 1898-97.	Average, 1895-96.
1	2	8	4	6	6	7
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
July	11.07	17.60	9.29	14:45	13.10	8-12
August	14.20	11.30	12.79	10.66	12 31	6.86
September	4.27	8.60	4.10	3.08	6.03	6.97
Ostober	***	001	***	66>	***	3.93
Total kharif season, 1896-97.	29.54	87:50	26-18	28.10	30 83	24:48
Do. 1895-96	81.88	20.17	28.73	18.02	24:48	4 * *

44. The following table shows the highest levels of the Cossye and Rupnarain rivers, compared with those of last year, and with the nighest recorded levels :-

Y a collider		1895-96, *		1896-97.	HIGHEST RECORDED.		
River.	Locality.	Date.	Reading.	Date.	Reading.	Date.	Reading.
	8	8	٠	8	6	7	8
Coasy	Midnapore above weir leitro below weir Panchkurah above weir	19th Reptember 1806 19to, do 21st Do. do 19to, do	85°80 37°10 26 90	Do. do.	89°00 74°00 31°00 33°90	1968 Do. 10th October 1876	92 36 91 66 35 00 34 28
Rupaerain	Dainan Kantapukhur	19th 170, do 19th Do. do	15 20	27th July 1896 Do. do.	15.00	20th August 1865 Do. do	17.26

The greatest discharge of the Cossye during the year was 70,319 cubic feet per second on the 22nd August 1896, against 14,571 cubic feet per second on the 19th and 20th September 1895. The discharge of the Cossye at Midnapore fell very low during October, when the demand for canal water was greatest, the average discharge for the whole month being only 419 cubic feet per second. The minimum discharge occurred on the 5th March 1897, when only 15 cubic feet per second was registered.

The Superintending Engineer remarks:-

"There were high floods in nearly all the rivers crossed by the Midnapore Canal during the year. The highest reading of the Cossye above weir was 89.00 on the 22nd August as compared with 85.50 on the 19th September 1895, the highest reading on record above the amout being 92.30.

"The interruption to traffic at Panskurah during the flood season has been the subject of discussion for many years. The question has been carefully considered by Mr. Barlow during the past year, but so far he has not been able to submit any definite proposals which could be likely to remove the obstruction. It has, however, been ascortained beyond doubt that if the river does not rise above 28:00 level, there is little or no interruption to traffic, but with high floods (35 is the highest flood level) a backwater is formed extending from the lock to the under sluices in which very heavy silting takes place, and the silt cannot be secured out until the river falls below 20.00. It is difficult to know what to advise under the circumstances. Meanwhile observations are still being taken with the view of obtaining some solution of the difficulty. The floods caused many breaches in the embankments, but no damage was done to the Head-works. The Selye at Chattal was also in high flood, the gauge reading, 30.50, on the 23rd August 1896 being the highest recorded."

years, as also the average annual rainfall, are shown below:—

YEAR		Kharif.	Rabi.	Perennial.	Total.	Rainfall
. 1		2	3	4	5	6
		Aores.	Acres.		Acres.	Inches.
1886-87	•••	69,762	***		69,762	53.05
1887-88	•••	64,702	1,162	***	65,864	22.08
1888-89		66,408	3,369	•••	69,777	62.13
1889-90	•••	68,370	440		68,810	44.47
1890-91	•••	82,002	100	***	82,002	55.68
1891-92	•••	83,905	68		83,973	51.81
1892-98	***	91,217	400	***	91,217	41.28 >
1893-94	***	79,550	6,213	***	85,763	70.63
1894-95		69,941	175	***	70,116	55.90
1895-96		65,251		0 0 0	65,251	36.66
1896.97	***	65,183		* * *	65,183	55.88

 Average of four stations throughout the irrigated areas under the Midnapore and Panche kursh weirs.

The total area irrigated during the year was 65,183 acres, as compared with 65,251 acres of the previous year. A much larger area would have been brought under lease, but all leases applied for after the 20th October had to be refused owing to the small discharge available from the Cossye river.

It has been found desirable to restrict the area to be irrigated under long lease to 72,000 acres, and if water is still available, it will be supplied to such areas as are adjacent to the distributaries, in single waerings at the rate of eight areas as are adjacent to the distributaries, in single waerings at the rate of eight areas per acre. To prevent the rush for leases in October it is proposed to fix some date, probably the 15th September, after which no application for a long lease will be received. In last year's Revenue Report the question of the non-renewal of lapsed leases was discussed, and it was intimated that some of the rules under which leases are granted would probably be relaxed. During the year 1896-97 a concession has been granted as regards remeasurement, the penalty rate has been abolished, and all water-rates above Rs. 5 are now collected in two instalments. On the 31st March 1896 long leases for 17,201 acres expired, and during the year applications for renewal of 18,841 acres were received. There is, however, no doubt that the leases would have been renewed again even if the concessions had not been granted, so great was the demand for water.

46. The following table gives particulars about the areas under lease:-

		KHARIF.					
Particulars.	Long, leases,	Annual leases.	Surrepti- tions irrigation.	and other perennial trrigation.	Rabi.	Total.	Remarks
1	8	3	4	8	6	T	
Leasee in force in 1895-96  Do. whi-heaptired at the end of 1895-86 Do. in force at the beginning of 1890-97 Do. in force during fase-97 Do. in force during the year 1896-97 Do. which expired at the end of 1896-97 Do. in force at the beginning of 1897-98.	Acres. 64,791 17,901 47,689 30,044 67,683 33,225 34,408	Acres, 435 435	Acres, 25 25 990 990 990 990 990	Acros.	Acres.	Acres, 65,251 17,661 47,689 21,034 08,623 34,215 34,409	

DUTT OF

47. The duty obtained in the kharif season, calculated from the gross discharge, is given below for the last three years:—

		Particulars.		Under Midnapore weir.	Under Panch- kurah weir
		1		2	8
		( Acres		30,209	2,781
1894-95	Kharif	Duty on gross supply	0 0 1	204	170
	4	(Acres		56,887	7,234
1895-96	Kharif	Duty on gross supply		105	64
		( Acres	***	56,334	7,763
1896-97	Kharif	Duty on gross supply	•••	232	228

The Superintending Engineer is of opinion that this system of calculating the average duty of water is of no practical value. Unfortunately there is no accurate information available of the area irrigated between September and November.

CROP EXPERI-

48. The usual crop experiments were made during the year. The total number of these experiments was 70, of which only 8 were made on unirrigated lands. The average outturn of this irrigated crop was about 20 maunds per acre of grain and 42 maunds of straw weighed dry. In one experiment made on No. 1 Distributary, where the water-supply was good and taken early, the outturn of paddy was 34½ maunds, and straw 95½ maunds.

In addition to the above 14 experiments were made by the Special Deputy Collector; they gave an average outturn of 20 maunds of paddy, and 36 maunds of straw, weighed dry, per acre, against 14 and 28 maunds respectively of the

unirrigated area.

Statement showing the average outturn of each crop experimented by each officer of the Midnapore Canal Revenue Division during the year 1896-97.

NAME OF OFFICER.	Name of grop.		Num- ber of experi-	AVERAGE WEIGHT PRE ACRE IF WEIGHED WAT.			Average weight per acer if weighed dry, or reduced, if weighed wet.			HRD .	REMARKS.		
			ments.	Grain.		Straw.		Grain.		Straw.		6	
1													
Sabu Ram Sadan Bhattacharjee,	Rice	240	1	Mds.	ers. 16	Mds.	11TH. 20	Mds.	81	Mds.	srs.	Experiment made on irr	
Special Deputy Collector. Ditto	Do.	444	1	14	98	27	16	8	19	10	11	Experiment made on man not irrigated by cans	
Baba Mohananda Ganguli, Zilla-	Do.	***	2	26	15		20	8	16	88	0	Experiment made on land irrigated by canal water	
dar Panskura. Ditto	Do.	100	8	17	26	46	1.6	16	9	30	30	not irrigated by can	
Babu Shidhessur Masumdar, Zilla-	Do.	668		8010	60	****	19 20 43		0	Ruperiment made on lar irrigated by canal water			
dar, Bulichak.	Do.	000	8	0000	40	****		18		37	0	not irrigated by cats	
Babu Mobendra Nath Mal, Zilla- dar in charge, Antra subdivision.	Do.	404		26	18	65	1	24	10	46	14	Experiment made on land irrigated by canal water	

49. The balances, assessments, and recoveries of water-nates on the Midnapore Canal during the last five years are shown in the following statement:—

Apploaments and Balan-

YEAR.		Amount outstanding at commencement of year.	Amount falling due during the year.	Total for recovery.	Cash realization.	Remitted or written off.	Balance at the end of the year.	
1	1		3	4	5	6	7	
Patri	1 9 11009	Rs.	Ra.	Rs.	Rs.	Rs.	Rs.	
1892-93	***	58,972	1,39,990	1,98,962	1,49,057	1,338	48,567	
1893-94	***	48,567	1,30,111	1,78,678	1,65,630	6,021.	7,027	
1894-95		7,027	1,35,016	1,42,043	1,36,882	612	4,549	
1895-96		4,549	1,04,111	1,08,660	98,059	477	10,124	
1896-97		10,124	1,05,660	1,15,784	1,00,618	8,727	11,439	

The cause of the large balance at the end of the year is thus explained by the Superintending Engineer:—

"The balance, a part of which is unrealizable, includes Rs. 2,562-9-6 on account of illicit irrigation which could not be collected, as the cases were disposed of in February and March. The tardiness of the villages in applying for leases put obstacles in the way of prompt collection of water-rates, as the assessment of partly irrigated villages took up a great deal of time, owing to the unirrigated areas having to be measured up and excluded from assessment. Again, no less than 209 petitions were filed, praying for remission, on the ground of non-supply of water, and the Executive Engineer recommended remission in 63 cases. The investigation of these complaints delayed the work of assessment, and also that of collection. The demands in a few villages could not likewise be collected, as the villagers objected to sign the kabuliyats, until the cause of increased areas, due to re-measurement, was explained to them, and this could not be done until the end of March. The payment by two instalments in the case of demand above Rs. 5 also told upon collections to a certain extent.

But for these unfavourable incidents the collections of the year would have been more satisfactory. The number of collecting agencies was 14 only, who realized a sum of Rs. 1,00,565 from 38,149 rate-payers residing in 934 villages, in three months' time. On the whole, therefore, the percentage of collection must be considered creditable to the Special Deputy Collector and his staff.

Out of Rs. 1,00,618 collected, Rs. 3,731 only were realized by means of the certificate procedura."

50. The following statement shows the arrears of water-rates of each former year which were outstanding at the beginning of 1896-97, as well as the current dues, and the extent to which they have been worked off:—

ANSKARS.

	1		1		Balance				
YEAR. Amount previously due and unrealised.		Amount falling due within the year.	Total amount due to end of the year.	Cash recoveries.	Remissions authorised.	Written off as being irrecover- able.	Total.	unrealised at end of the month of March 1897.	
1	2. 2		8	4.	В	6	7	8	9
1809-99	***	R4. A. 2.	Ra. A. P. 877 10 0	Ra. A. P. 278 6 6	Ra. A. P. 186 6 9	Rs. A. P. 83 18 9	Rs. A. P. 39 15 6	Rs. A. P. \$10 1 0	Be. A. P
1008-04-	***	-4 8 6 887 8 0	28-1 9	808 4 6	175 7 8	88 3 9	88- 6 P	368-15 9	86 6 9
1004-05	***	-11 & 3 601 & 9	120-3-9	821- 0 0	688 14 0	55 9 0	es 18 9	753 4 8	67 19 6
1895-96	***	9,045 9 9	4,007 4 9	18,796-14 0	9,879 4 9	8,190 1 9	2.19 9	18,004 8 8	722 10 9
1800-07	F14	+15 15 6	1,00,565 4 0	1,00,565 4 0	89,780 1 8	983 15 0	100	96,086 0 3	10,531 8 9
Total	1	10,134 5 6	1,95,060 8 3	1,15,784 13 9	1,00,018 0 0	3,550 10 9	176 13 9	1,04,346 8 6	11,439 5 8

REMISSIONS.

51. The sum of Rs. 3,727-8-6 was remitted during the year 1896-97 against Rs. 477-2-3 in the previous year. The following are the details:-

		Ka.	A.	P.
Remissions granted by the Collector Engineer under Rule 28 of the M Remissions granted by the Special 1	idnapore Canal rul	es 193	1	0
Rule 24, clause I	A	3,293	15	0
Remissions granted by the Special I Rule 24, clause II Remissions granted by the Special	181	nder 240		6
Rule 25				
				-
	Total	3,727	8	6

The remissions are much larger than those of 1895-96. This is due to the remission of Rs. 2,854, with the permission of the Superintending Engineer, on account of the extra rate of 12 annas imposed during 1895-96 on several villages, and also to the remission of Rs. 240-8-6 on account of deficient supply of water, at the recommendation of the Executive Engineer.

Rupees 711-15-9 were refunded during the year, of which Rs. 329-3-6

represent collections at the extra rate of 12 annas made in 1895-96.

52. The extent to which recoveries by means of certificates were made during the year is shown in the following statement:-

		MIDNA	PORE.	
PARTICULARS.	189	5-96.	189	<b>6</b> -97.
	No.	Amount.	No.	Amount
1	2	3	4	5
Cases for disposal.		Ra.		Re.
1. Cases pending at the close of the preceding year 2. Cases instituted during the year	17 286	229 2,904	58 565	664 3,482
Total	303	3,133	623	4,146
Cases disposed of.				
1. By being struck off, owing to the demand having been remitted.	2	12	29	215
2. By being wholly satisfied	243	2,457	563	3,731
Total	245	2,469	592	3,946
Balance outstanding at the close of the year	58	664	31	200

The number of certificate cases instituted during the year was almost double that of the previous year. The increase is attributed mainly to the efforts made by the Special Deputy Collector to collect arrear demands. Some certificates were also issued for the realization of the current demand in villages which would not easily pay up. The number of outstanding cases at the end of the year was 31 against 58 of the year before.

There were no cases of arrest of judgment-debtors. In no case was it necessary to sell the judgment-debtor's immovable property, and in only one instance.

instance was resistance offered to the process of the Court.

CERTIFICATES.

53. The number of complaints filed during the year, and the nature of COMPLAINTS. their disposal, is shown in the following statement:-

			RECEIVED.		E	DISPOSED OF.			BALARCE PEEDING AT EMP		
YEAR.	Class of complaints,	Balance pending from pre- vious year.	Received	Total.	Allowed.	Refused.	Total.	Received during previous years,	Received during the year.	Total.	
1	3	3	4	8	6	7	8	9	10	11	
895-96 {	Ordinary remission Other complaints	69	233 108	244 115	52 53	95 53	147 106	1		9/	
	Total	18	341	859	105	149	253			108	
06-97 {	Ordinary remission Other complaints	97	538 49	635 58	209	255 13	554 57	000		81	
	Total	106	887	693	343	268	611			82	

The cost of the revenue establishment during the last five years is shown below :-

ESTABLISHMENT UNDER THE COLLECTOR.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97
1	2	3	4	5	6
Permanent establishment, including travelling allowances.	Rs. 20,263	Rs. 16,620	Rs. 18,436	Rs. 17,530	Re. 18,650
Temporary establishment Contingencies Headman's fees	1,014 375	346 1,814 325	1,289 873 813	832 677 656	1,566 1,111
Total	22,093	19,105	21,411	19,195	21,327

In addition to the above, the following sums were paid by the Executive Engineer for water regulation:

Water-regulation.

		-		
		'E	Permanent.	Temporary.
1892-93	0 0 0	***	Rs. 419	Rs. 500
1893-94			822	288
1894-95			1,187	263
1895-96			1,208	129
1896-97	• • •	***	1,095	241

55. The navigation receipts were the highest on record during the last NAVIGATION. ten years; they amounted to Rs. 1,54,215, as compared with Rs. 1,43,918 in 1895-96. There was an increase under all heads, in the number and tonnage of boats, and in the number of passengers.

The Superintending Engineer writes:-

"The principal increase was in down traffic. As to exports the principal excess over the previous year was in paddy and rice; under imports the increase was confined to iron, coal and coke, which were carried by the canals for use in the Bengal-Nagpur Railway extension now under construction. The rice crop, as a rule, was a good one, except in the unirrigated tracts and in some lands in the south of the district; hence the large exports are most remarkable, as showing that the high prices induced the villagers to take out and sell part of their reserve stock. The paddy and rice for export mostly came from the canal-irrigated tracts and from the south of the district below Narainghur. The slight variations under other heads call for no remarks. It should be noted here that the traffic in the tidal reaches during January and February was small. The Calcutta Steam Navigation Company's ordinary steamer service continued to ply round by the river till April, when the winds and high tides began to get strong and made navigation somewhat slow and dengerous. As reported last year, the water in these reaches became very low during these months, owing to reported last year, the water in these reaches became very low during these months, owing to the low tides and the large deposit of silt in them."

BRAKESO.

Particulars regarding the traffic on the canal for the last ten years are tabulated below:—

DESCRIPTION.		1867-88.	1868-89.	1809-90.	1890-91.	1891-99.	1892-98.	1898-94.	1894-96.	1895-94,	1896-97,
1		. 2	3	٠	8	6	7	8	0,	10	п
Hiles open Foll collections	No. Rs.	72 1,08,440 2,040	72 1,25,332 2,366	72 1,18,400 2,196	72 80,556 1,630,	79 (a)1,88,572 1,841	72 (a)1,14,161 1,585	78 (a)1,14,994 1,597	78 (a)1, <b>8</b> 5,482 1,894	79 (a)1,43,918 1,990	(a)1,64,7 8,1
umber of boats, in- cluding empty boats onnage of boats assengers carried	No. Tons. No.	49,028 400,866 100,567	54,214 470,806 187,259	52,060 462,416 170,226	45,054 417,803 187,700	49,395 411,899 103,836		36,910 369,601 (b) 203,053	420,096	457,208	607.9
cargo, including	Ha.	1,18,44,844	1,31,70,209	1,45,19,448	1,46,83,391	1,96,65,734	1,26,04,204	1,22,50,486	1,94,69,708	1,27,43,186	1,38,78,

<sup>(</sup>a) Tholusive of tolls (Re. 41,180, Rs. 29,086, Rs. 30,667, Rs. 44,486, Rs. 38,576 and Rs. 40,425) paid by the Calcutta Steam Navigation Company.

(b) Inclusive of passengers (92,287, 109,916, 109,650, 112,555, and 113,615) carried by the Calcutta Steam Navigation Company's steamers.

MISCRLLA-

BRAD WORES.

# 56. The miscellaneous receipts for the last five years were as follows:-

DE	TAILE.	1892-93.	1893-94.	1894-95.	1895-96.	1896-9.7
	1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.	Re.
Sale of water Plantations Other canal pro-	oduce	10 34 1	4 44 2	55	18	119 28 28
Rent of building	Rent of lands of fisheries	740 8,586 1,162	712 12,468 1,479	890 12,049 1,507	978 10,390 1,440	1,156 14,958 1,664
Miscellaneous	Cost of process Other items	1,280 5,166	2,173 7,437	722 7,084	333 8,775	672 6,304
	Total	16,979	24,319	22,308	22,017	24,924

MAINTENANCE 57. The actual cost of maintenance and repairs during the last five years and Repairs. is shown below:—

shown below:—	1892-93. Ra	1893-94. Re.	1894-95. Rs.	1895-96. Ra.	1896-97. Rs.
Head works, includ- ing buildings	0.065	9,430	15,461	26,774	12,693
Main canal and branches Distributaries	59,802	67,404 20,932	68,702 18, <b>501</b>	77,291 24,601	65,331 25,222
Drainage and pro- tective works Working steamers	0.000	2,058 3,354	1,240 598	3,261 3,120	1,898 3,011
Total	OF 400	1,03,178	1,01,502	1,35,047	1,08,155

The outlay on repairs to the main canal, including that on head works, on working steamers, and on drainage works, but excluding distributaries, was Rs. 82,933, against Rs. 1,10,446 in 1895-96.

The expenditure was considerably less than that of the previous year.

58. The expenditure on head works was small, being confined to petty

works necessary to keep the weirs, &c., in proper repair.

The expenditure on the Midnapore and Pauchkurah head works during the year was Rs. 7,997 and Rs. 4,696, respectively, against Rs. 20,499 and Rs. 6,275 in the previous year. On weirs the expenditure was at the rate of Rs. 6,275 per foot run at Midnapore, and Re. 1.14 at Panchkurah, as compared with Rs. 4.25 and Re. 1.25, respectively, last year.

The mileage rate for repairs to the main canal was Rs. 1,728, as MAIN CANAL compared with Rs. 2,301 in the previous year.

The cost of working Government steamers and bholio was Rs. 3,011 against Rs. 3,120 in 1895-96. This expenditure was chiefly confined to working the steam-launch Kabaduck.

The expenditure on Tools and Plant was Rs. 30,827, as compared with Rs. 51,364 in the previous year. The outlay was mainly incurred on thorough repairs to dredging plant at a cost of Rs. 29,537.

60. On distributaries, the expenditure on repairs was Rs. 25,222, or Rs. 89.12 per mile, against Rs. 24,601, or Rs. 87 per mile, in the previous year. The expenditure of the year was very high, and was incurred in thorough repairs to masonry regulators, head sluices, bridges, and in bringing the worst distributaries up to proper section.

The cost of maintenance per mile of both the main canal and the distribu-

taries is given below for each of the last ten years:-

NEAR.		MAIN .	CANAL AND WORES, &C.	HEAD	DISTRIBUTARIES.			
		Length of canal open.	Total cost of work.	Rate per mile.	Length of distributary channels.	Total cost of work.	Rate per mile.	
1	1 2		3 4		6	6	7	
		Miles.	Ra.	Rs.	Miles.	Ra.	Re.	
1887-88		48	1,10,494	2.301	283	20.687	74	
1888-89	***	48	83,676	1,743	283	22,464	79	
TH89-90	401	48	93,738	1.953	283	19,769	69	
1890-91	001	48	92,187	1,941	283	11,851	41	
1891-92	244	48	1,30,897	2,727	283	10,365	36	
189 <b>2-93</b> 1893-94	***	48	74,818	1,558	283	12,612	44	
1894-95	101	48	82,246	1,718	283	20,981	74	
1895-96	***	48	86,001	1,792	283	18,501	65	
1896-97		48	1,10,446	2,301	283	24,601	87	
1020-91	***	95	82,933	1.728	283	25,222	89.12	

The following statement shows the quantity of work done by each SILT GLEARING. dredger and excavator, and the amount expended on their working during the year :-

				Quantity	Actual	Con	T OF REMOVE	ING.	Lifting		
		NAME OF DREDGER.		of earth dredged. litting. hoppings. barg		hopper harge 8. L. cricket.	Ordinary hopper barge.	Total.	rate per 1,000 cubic feet.	Removing rate per 1,000 cubic feet.	Total rate per 1,000 cubic feet
		1		3	8	4	6	6	7	8	9
				C. ft.	Re.	Re.	Re.	Ra.	Ra.	Ra.	Ba.
De	ed ger	Allas Ajazo Hector Combination Cadmas	000	1,282,675 2,257,087 1,580,025 168,363 301,940	4,480 6,976 9,021 1,849 2,131	1,839 8,383 8,217	100 100 000 000	6,31A 10,359 12,238 1,549 2,121	8:50 8:9 5:71 10:98 5:41	1'48 1'50 2'03	4'99 4'59 7'74 10'98 5'41
		Total for 1896-97		6,680,090	24,456	8,429		32,855	4:30	1:49	5 78
		Total for 1895-96	094	4,743,703	19,191	6,002	1-0	25,283	6'04	1:20	5:33

The quantity of silt excavated during the year from the main canal and entrances was considerably more than in the previous year, viz., 5,680,090 cubic feet, against 4,742,703 cubic feet. The cost of lifting and removing was Rs. 32,885 as compared with Rs. 25,283 of the year before. The rate increased from 5.33 to 5.78 per 1,000 cubic feet. The Kantapukur entrance gave great trouble during the year, requiring the dredging of a channel 900 feet long in the bed of the river.

62. The expenditure on plantations during the year was Rs. 287, against Rs. 130 of the previous year. The following table compares the condition of the plantations in 1896-97 with 1895-96:-

Yeak.		Trees upwards of 12 feet high.	Saplings between 4 and 12 feet.	Seedlings below 4 feet.	Total.
		2	8	4	5
1895-96 1896-97	•••	No. 15,098 15,813	No. 4,545 4,545	No. 1,967 3,486	No. 21,610 23,844

63. The result of the year's operations is satisfactory. The season was one of good rainfall at the beginning, but owing to the cessation of the rains in September, the demand for canal water during the remainder of the season was

very great.

The receipts from all sources show an increase, and the working expenses

### HIJILI TIDAL CANAL.

The Capital, Interest and Revenue accounts of this canal are given below :-

# 1.-CAPITAL ACCOUNT.

HEADS OF A	Account.			Outlay during 1896-97.	Outlay to end of 1896-97.
1				2	3
I.—Works II.—Establishment III.—Tools and plant IV.—Suspense accounts Loss by exchange	HARGES.	000	•••	Rs. 25,731 5,631 5,000	Re. 18,04,149 5,83,411 1,42,004  22,790
V.—Less—Receipts on capital	accounts	Total	•••	36,362	25,52,354 925
Net tot	al direct cha	rges	000	36,362	25,51,429
Capitalization of abatement of last Leave and pension allowances		000	•••	··· <b>78</b> 8	11,210 52,303
Total	indirect ch	arges	**	788	68,513

The only works charged to Capital account were the completion of the new supply sluice and channel at Terapakia, for feeding the second range of the canal from the Haldi river, and the remodelling of the Kalinagar Lock.

#### 3.-INTEREST ACCOUNT.

ACCOUNT.

Interest charges to end of 1895-96 ...
Ditto for 1896-97 ...

Rs. 19,36,124 1,01,330

20,37,454

8.—REVENUE ACCOUNT (Actuals).

REVENUE

	Expend	ITURE -		RECEI	PTS-	
Particulars.	During 1895-96.	During 1896-97.	Particulars.	During 1895-96.	During 1896-97.	
1	2 3		4	5	6	
DIRECT CHARGES.	Rs.	Rs.	Water-rates	Rs.	Rs	
I,- Works, maintenance and repairs II Revenue manage-	54,860	34,502	Navigation	60,677	89,511	
ment	4,020	3,988	Miscellaneous	1,299	1,485	
Total Direct charges	58,880	38,490	Total	61,976	90,946	
Indirect Charges	2,518	1,701	Less-Refunds of	* * *	***	
Total working expenses   Net revenue	61,398 578	40,191 50,755	Net total receipts	61,976	90,946	
Total	61,976	90,946			,	

Norm.—The details by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 65 following.

65. The following statement shows the receipts on Revenue account, and working expenses, for the last ten years:—

PARTICULARS.	1887-88.	1888-89.	1889-90,	1890-91,	1891-93.	1892-93,	1893-94.	1894-95,	1895-96.	1896-07
1	3	3	4	5	6	7	8	9	10	11
RECEIPTS.	Rs.	Re.	Re.	Re,	Ro.	Rs.	Re.	Ra.	Re.	Re.
Navigation Miscellaneous	40,406 1,452		40,338 1,614	<b>37,14</b> 5 899	<b>36,34</b> 8 567	52,180 1,282	58,209 987	57,089 1.436	60,677	89,513 1,430
Total Less -Refunds of revenue	41,858	55,170 78	41,952	28,044	36,915	53,462	89,196	58,525	61,976	90,946
Total Receipts	41,858	55,007	41,982	28,044	36,915	53,390	59,196	58,525	61,976	90,946
DIERCT CHARGES.  IWorks, maintenance, and repairs.  Works	47,928	1,718 50,990	16,713	97.019	31, 188	10,447	1,925 32,077	26,148	16,712 20,186	20,342
Bstablishment, including direction and accounts  Tools and plant	11,855 2,105	16,579 2,868	4,187 1,806	8,636 13,487	11,433	5,562 5,363	12,614	9,770	13,966	8,159
Total	01,888	72,078	22,676	40,135	45,714	27,372	50,617	41,339	54,900	34,508
II.—Revenue management.	8,007	3,196	3.039	2,883			2.500	4740	. ===	
Total Direct Charges	64,805	75,273	25,715	51,968	3,955	4,333	8,700 54,217	4,140	4,020	3,986
•	2,081	2,767	1,007	1,606	48,669	31,704		45,479	58,890	38,400
	66,976	78,040	26,722		2,014	1,385	2,294	1,947	2,518	1,701
fotal working expenses				53,574	50,663	83,089	56,501	47,496	61,398	40,191
Wet revenue	(-)25,118	()22,943	15,230	()25,830	()13,768	20,301	3,696	11,039	578	80,755

The cost of maintenance was Rs. 40,191 as compared with Rs. 61,398 in 1895-96. The reduction in expenditure is due to the fact that no special repairs were done to the canal. The receipts were the highest recorded since the opening of the canal; the expenditure was much below that of the previous year, and the net revenue was far greater than anything hitherto obtained.

RAINPALL,

66. The rainfall register during the year at Contai station was 61.38 inches as compared with 43.26 inches in 1895-96, and an average of 61.52 inches for the previous five years. The rainfall was very good at the beginning of the season, and though it was scanty in September, this suited the rice in the low lands of Hijili where the crops were excellent.

67. There were no high floods in 1896-97 in any of the rivers crossed by the canal, and no breaches occurred. The following statement shows the highest gauge readings of the rivers Hooghly, Haldi, and Russulpur:—

NAMEOF	X liter	1895-96,		1896-97.		Higher an	OORD.	Description
RIVER.	Locality.	Date.	Reading.	Date.	Reading.	Date.	Reading.	RRMARES.
1	8	3	4	8	8	7		,
Rooghly	Gewankhalı,	19th Sept. 1895	116-30	15th August 1896	115:30	Cyclonic sterm of 1874,	123:23	
Haldi	Terapakia	Do. do.	117'40	10th do.	116-30	* Not known	120.82	* Recorded or plan without date (Mr. Vertannes).
Russilpur	Kalinegar	90th do.	114'70	12th do.	114'80	20th August 1888	118-50	v or seather).

NAVIGATION.

# The traffic stastitics for the last ten years are given below:

PARTICULARS.	1887-88.	1888-89.	1889-90,	1890-91.	1891-93,	1693-99.	1893-94,	1894-96.	1996-06,	1896-87
1	3	8	•	8		7		•		n
files open No. Foll collections Rs. Rate of toll per mile Number of boats, in-	(a) 40,400 1,338	29 (a)53,910 1,700	99 (a) 40,341 1,200	29 (4) 27,145 831	29 (a)36,348 1,128	29 (a) 62,180 1,007		29 (a) 57,089 1,968	29 (a) 60,677 2,098	(a)89,511 3,086
cluding empty boats No. Fonnage of boats Tons Passengers carried No. Estimated value of	13,563 124,903 11,951	16,481 165,635 34,632	15,785 124,005 (6)30,222	10,215 91,114 (6)22,420	15,332 133,676 (5)17,380	16,084 16<,239 (6)42,488	14,716 1,78,640 60,081	18,133 193,345 (b)34,961	15,692 209,574 (b) 27,581	92,97 290,599 (8) 98,07
eargo, including Re.	26,13,351	33,01,123	27,29,730	20,78,972	34,97,725	82,86,880	40,57,400	44,85,280	46,84,223	69,85,15

(a) Inclusive of tolls, Rs. 1,803, Rs. 1,503, Rs. 4,590, Rs. 5,523, Rs. 3,346, Rs. 3,634, Rs. 5,569, Rs. 7,586, Rs. 5,390, Rs. 4,673 Rs. 6,602 paid by the Calcutta Steam Navigation Company.

(b) Inclusive of passengers, 23,243, 17,554, 21,209, 31,792, 41,286, 16,634, 22,613 and 23,356 carried by the Company's steamers.

The tollage receipts amounted to Rs. 89,511, and show an increase of Rs. 28,834 compared with the figures of 1895-96.

The Superintending Engineer writes:-

"The gross tonnage of boats was 290,595, against 208,574 of the previous year, and the number of boats increased from 15,692 to 22,979. Out of the earnings of the year a sum of Rs. 783-11-9 was remitted to the Calcutta Steam Navigation Company, being the difference between the local and the calcutta Steam Navigation Company, being the difference between the local and the calcutta Steam Navigation Company. between the local and through rate of tolls on such days as they maintained a separate steamer in the Hijili and Orissa Coast Canals, the passengers being transhipped at Kalinagar. This interruption of steamer service caused a great falling off in the number of passengers, as the figures for 1896-97 are for the whole year, whereas those for 1896-96 are for thirty-three weeks only

The only important change in the traffic was the great increase in the export of rice, viz, 80,520 tons, against 50,976 tons of the previous year. This was entirely owing to the high price of rice which prevailed in the Calcutta market on account of the famine in Bihar. The export of timber also largely increased, and this was due to the demand for wood for building heats for rice transport

building boats for rice transport.

On comparing the receipts at different toll stations, a very large increase is noted at Kalinagar, viz., Rs. 11,551 for down traffic, compared with Rs. 6,788 of the previous year. Some 50,000 maunds of rice and paddy were transhipped here monthly during April, May and June until the lock was re-opened. On the first day that the lock was opened, 200 empty boats passed through it to go and procure rice from the various hats on the Rassulpur river.

The Executive Engineer reports that a great deal of rice comes down the Sadar Khal, and that there are also several large hats lower down on the Rassulpur river, from which rice might be exported by the Hijili Tidal Canal in the cold weather months, if the tollage rates were reduced. The question of reduced tollage on the Hijili Tidal Canal, in order to tap the traffic on the Rassulpur and Huldi rivers during the cold weather months, is an important one, and a separate reference will be made to Government on the subject. The crossing of the Huldi river has kept its old course, but the entrance channel at Etamagra Lock is deteriorating, and parts of the banks are being cut back. It is satisfactory to note that the Rassulpur river continued to improve during the year. Dredging was started in the Sadar Khal, but little work was done, owing to the breakdown of the dredger."

69. The miscellaneous receipts for the last five years are shown below :-

MISCRETA-NEOUS BROREPIS

1000 00		•	9 0000 1000	STOWIT OCTOM
1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
Rs. 1,282	Rs. 987	Rs. 1,436	Rs. 1,299	Rs. 1,435

70. The quantity of silt dredged from Ranges I and II of the canal, and the cost of lifting and removal are shown in the statement below:—

NAME OF DREDGER.	Cubic feet dredged.	Cost of lifting per 1,000 eubic feet.	Cost of removing per 1,000 cubic feet.	Total cost per 1,000 oubic feet.	Site of work.
1	2	3	4	5	6
New Bruce No. II Mar. hant No J Ditto No. II(Jack) Ditto No. II do. Ditto No. III do. Ditto No. III Ditto No. III	7,000 12,700° 14,000° 195,000° 91,000 55,500 79,009	Rs: 64 13 54 14.28 5.01 4 50 4 04 6.15	Rs. 5 8 82 10.00 4.57 5 00 4.50 4.49	Rs. 69 22:36 24:28 9:58 9:50 8:54 10:64	Range I, Etamagra. Do. II, Terapakia. Do. II, Do. Do. II, Kalinagar. Do, II, Etamagra lock. Do. II, Kalinagar. Do. II, Kalinagar. Do. II, Sadar Khal.

These are for Original Works in cutting away Terapakis Supply Channel junction bunds, and in removing bunds and silt at Kalinayar.

71. At Terapakia, silt was cleared by hand from 12th mile 28 chains to sur clear.

14th mile 38 chains of the canal, 3,210,991 c. ft. being removed at a cost of Rs. 12,373. Half a lakh of silt was removed from the inner channel of the lock at Kalinagar at a cost of Rs. 252, and another 20,000 c. ft. was also cleared from outside the lock for Rs. 66.

72. The following table shows the state of the plantations for the last two PLASTATIONS.

YEAR.	Trees up- wards of 12 feet in height	Saplings from 4 to 12 feet in height.	Seedlings under 4 feet.	Total.
1	2	3	4	5
1908 07	6,410 6,448	No. 5,034 5,355	No.   320   226	No. 11,764 11,729

73. The result of the year's operation was very satisfactory. Notwithstanding the closure of the Kalinagar lock, which lasted over three and half months, the net revenue of the year has far exceeded that of the last year. It is hoped that with the through traffic now re-established, the result will be far more satisfactory in future years.

BENUTAL BESULTS.

# CAPITAL ACCOUNTS

#### SONE CANALS.

74. The Capital, Interest, and Revenue Accounts of these canals are given below:—

I.-CAPITAL ACCOUNT.

HEADS OF	Account.		Outlay during 1896-97.	Outlay to end of 1896-97.
	1		2	8
I.—Works II.—Establishment III.—Tools and plant IV.—Suspense accounts Loss by exchange	Charges.	•••	Rs. 8,797 1,780 101 (—)261	Rs. 1,87,73,420 52,08,788 22,48,951 1,11,722 52,240
V.—Less—Beceipts on C.	Total		10,417 39,7(5	2,63,95,121 4,14,150
Net to	tal Direct charges		()29,288	2,59,80,971
INDIRECT Capitalization of abatement o Leave and pension allowances			249	37,911 8,78,486
Tota	l Indirect charges		249	9,16,397

The capital account of the canals is closed. With the exception of an expenditure of Rs. 8,797 on account of permanent outlets, a syphon and subdistributary charged to open capital account, such original works as were constructed were executed on revenue account and charged to Extensions and Improvements.

II.—INTEREST ACCOUNT.

Patricia &

			Rs.
Interest charges to end of 1895-96	• • •	***	2,07,32,376
Ditto for 1896-97	***		10,39,825
	Total	* * *	2,17,72,201

Account.

#### III.-REVENUE ACCOUNT (ACTUALS.)

	EXPEND	TURE-		RECE	P18-	
Particulars.	During 1895-96.	During 1896-97.	Particulars.	During 1895-96	During 1890-97.	
1	2 8		4	5	6	
DIRECT CHARGES.	Rs.	Rs.	e C	Rs.	Rs.	
IWorks, mainte-	903		Water-rates	6,77,714	9,57,726	
nance and repairs  II.—Revenue manage	3,67,930	3,83,187	Navigation	61,261	70,006	
mont	1,56,571	1,65,484	Miscellaneous	33,148	36,961	
Total Direct charges	5,24,501	5,45,671	4		10,64,698	
Indirect Charges	49,933	48,793	Total  Lana—Refunds of	7,72,123		
	20,000		Revenue	6,807	5,048	
Total Working Ex-	: 5,74,434	5,97,464				
Net revenue, profit	1,90,882	4,62,181				
Total	7,65,316	19,59,645	Total Receipts	7,65,316	10,59,645	

Nore.—The details by heads of expenditure for the year 1896-97 and nine proceeding years will be found in the table given in paragraph 76 following.

75. The following statement compares the "Earnings" with the actual outlay for the years 1895-96 and 1896-97:—

Earnings				1895.96. Rs.	1896-97. Rs.
Irrigation Navigation Miscellaneous	•••	•••	•••	7,83,921 60,917 33,148	11,24,449 71.686 36,961
Deduct ref	unds of	Total revenue	* * *	8,77.986 6,807	12,33,196 5,048
Net earnings Outlay	***	+ @ + 0 + a	***	8,71,179 5,74,434	12 28,048 5,97,464
	Earn	ed profit	***	2,96,745	6,30,584

76. The following is a statement of the revenue account and working FIRANCIAE RESOLUTE.

	1887-86.	1886-89,	1889-90.	1890-91,	1891-92.	1892-93,	1898-94,	1894-95.	1895-96,	1896-97
1	3	3	4	8	6	7	8	9	10	11
RECEIPTS.	Ra	Re.	Rs.	Ra.	Pa	Ra.	97			
Water-rates Navigation Mincellaneous	5,19,5%6 55,094 25,450	7,59,556 57,829 26,504	8,10,394 67.759 23,342	6,44,718 65,629 26,128	8,11,750 66,517 81,827	9,68,070 58,089 29,214	8,42,309 60,025 20,178	7,43.243 58,896 35,690	Ra, 6,77,714 6,261 83,148	8.57,79 70,00
Total  Less - Refunds of revenue	6,03,949	8,43,889 12,611	8,97,495 16,590	7,86,475 7,865	9,10,094 4,020	10,56,373 3,752	9,31,912	8,87.761	7,72.198	30,961 10,64,698 5,048
Total Receipts	5,88,618	8,31,274	8,80,975	7,29,170	9,06,074	10,52,511	9,25,675	8,34,834	7,65,316	10,69,640
WORKING EXPEN- SES.									1,00,030	10,00,040
DIRECT CHARGES.					1	İ				
1 Works, maintenance and repairs.										
Works (extensions and improvements) Repairs, including com-	8,532	10,426	4,719	8,263	3,619	6,541	7,410	10,972	20,426	25,029
pensation Establishment, including	8,08,448	3,28,102	2,92,992	9,72,631	3,59,832	2,80,579	2,65,9:8	2,20,237	1,32,057	1.61.717
direction and accounts	2,10,227 28,221	1,97,477 33,990	1,82 067 33,460	1,48,896 28,527	1,89,196 33,843	28,031 28,031	9,22.213 27,206	2,31,729 27,543	2,00,094	1,83,041 93,400
Total	5,52,428	5,70,203	5,13,831	4,93,516	4,81,683	6,23,961	5,22,766	4,90,471	8,67,900	3,83,187
II Revenue manage- ment.							,			
Irrigation establishment	1,35,248 14.308	1,58,349	1,52,823	1,45,828	1,59,118 14,264	1,59,300 14,480	1,49,732 14,391	1,46,980	1,42,311	1,50,530
Total	1,49,551	1.72,414	1,67,198	1,59,770	1,66,377	1,73,730	1,64,123	1.6(.25)	1,56,571	
Potal Direct charges	7,01,979	7,42,619	6,61,959	0,53,286	6,48,060	6,97,691	6,86,884	6,51,722	5.24.501	5,48,671
INDIRECT CHARGES.									0.29,007	5,46,011
Ospitalization of abatement of land revenue Leave and pension allowances	50,309	61,813	48,971	48,813	49,780	83,556	54,087	55,017	40,913	46,703
Total Indirect charges	60,369	51,813	48,971	48,613	40,780	53,556	54.087	85,017	40,93;	
Total working expenses	7,52,848	7,94,432	7,29,030	7,02,099	6,97,840	7,51,947	7,40,076	7,06,739	5.74,434	48,793
Met revenue (	-)1,63,730	36,846	1,51,045	27,071	2,08,234	3.01.834	1,84,690	1,28,095	1.90,882	5,97,4 <b>04</b> 4,62,181

The irrigation receipts show a very considerable improvement which was due to the largely extended area under irrigation during the year. Navigation and miscellaneous receipts have also increased. The working exponses somewhat exceeded those of the previous year, but were far below the average of the last ten years. The cost of maintenance and repairs was larger than in 1895-96, mainly because there was a closure of the canals in the year under review, and partly because extra silt clearance in front of the locks on the canals was necessary on account of the unusually large amount of silt in the water. The works carried out under the head of Extensions and Improvements

were the completion of the surface supply inlet at Dehri; the raising of certain bridges on the Arrah Canal; the remodelling of lock khalasis' sheds, and several works of small importance. The Eastern Main series of canals was closed from the 25th April to the 11th June 1896; the Western Main Canal series was closed from the 26th March to the 6th April 1896.

LENOTHEFDOP CANALS AND DISTRIBUTA-RIES. 77. The following table shows the length of canals and distributaries in operation, and the areas commanded, provided with distributaries, and irrigated at the close of each of the last two years, respectively:—

		1				1896-97.								) 696-96.			
NAME OF CASSAS.		Navigable canals.	Canals for irrigation only.	Distributaries.	Area protected from flood.	Area under command.	Area provided with distribu-	Area irricated.	Percenture of area irrigated to area provided with distri- butaries.	Navigable capels.	Canals for irriration only.	Distributaries.	Area protected from fivod.	Avea under command.	Ares provided with distriba-	A rem irrigated	Percentage of area frighted to be been provided with dishra
9	-1-	8	3	6	8	6	7	8	9	10	11	18	13	14	10	16	19
Di i I lana		1 10s. 3	Miles.	Miles. 9 3411	Acres.	Acres, 15,462 300,693	Acres. 15.462 379,737	Acres. 4,158 104,280	27 27	Miles. 71 79	Miles.	Miles. 9 3611	Acres.	Acres. 15,462 300,683	Acres. 15,462 379,737	Acres. 2,821 85,4-5	ts. 22
		861		350)		406,185	398,199	309,435	27	R61		350}		406,155	345,199	16T, 036	22
Arrah Divi- Dumraos Branch		65)	40t 30	208 149 113		230.453 209,817 179,104	289,433 209,817 179,104	91.548 75,488 66,818	40 36 37	- US)	40} 81	20H 14D 113		229,433 909,N17 179,106	227,433 267,417 179,104	74,197 55,818 53,069	2000
		65)	711	470		618,354	618,354	234,025	38	G54	711	170		618,854	618,354	153,671	36
Pehri Workshope Division— Western Main	-	9				191		***	141	9					194		
Burar Divi- Burar Chowbey Bran- Burar Chowbey Bran- Chows Branch	ch	12è 46è	88 89}	46) 55) 196 111)	****	89,480 173,446 283,600 212,440	89,480 114,522 2×3, 80 134,514	61,608 } 151,182	30	124 461	38	403 551 196 1111		81,480 178 440 253 (90) 212,450	89,440 114,522 200,550 134,5.4	35,964	18
		571	77 1	409		709,000	548,006	112,690	3)	57 (	774	400		209,000	742,096	124,122	2
SOWE CARALA	3	3184	148	1,2291		1,788,509	1,536,649	555,166	35	2184	1488	1,:89}		1.733,509	1,556,649	\$30,227	25

VILLAGE CHANNELS ARD OUTLETS. 78. The lengths of village channe's and the number of outlets in use during the year were was follows:—

Division.	Total length of willage channels completed up to end of 1896 97.	Total number of temporary and permanent outlets in use during 1896-97.	Number of permanent outlets.	
1		2	3	4
Eastern Sone Arrah Buxar	• • • •	M. Ft. 497 5,112 1,169 3,391 1,001 2,021	No. 1,963 2,503 2,378	No. 1,025 1,913 687
Total, 1896-97		2,668 5,244	6,844	8,625
Total, 1995-96		2,288 3,624	5,674	3,519

The increase in the number of temporary outlets from 2,155 to 3,219 is

due to the very large rabi irrigation during the year.

The channels made by the villagers themselves increased during the year by nearly 400 miles. This, as the Superintending Engineer observes, is satisfactory. Steady, though slow, progress is being made in improving village channels.

79. The following is a statement of rainfall in the vicinity of the Sone Canals for the last five years:-

			AVERAGE OF 22 STATIONS.							
		1892.93.	1893-94.	1894-95.	1896-96.	1896-97				
¢	1	2	8	4	6	6				
Kharif season	August September October	Inches. 16:47 4:27 (:33	Inches. 7·52 10 30 4·4 ?	Inches. 14.81 9.50 8.06	Inches. 10:41 5:90 0:38	Inches. 9:69 2:81				
	Total	20:07	22.24	32-37	16:14	12.30				
Kabi season	December January February	0.03 0.61 2.07	0 82 0.09 0.68	2:08 0:03 () 56 0 61	0·14 0·01	0·73 0·31 0·03 1·08				
	Total	2:71	1.84	3.28	0.19	2 15				
7	Whole year	38-36	47.66	58-22	36.56	32.05				

The rainfall in the kharif season was abnormally bad: the average for the months of August, September, and October is about 23 inches, whereas in 1896 it was only 12.50 inches. The rain ceased entirely about the 22nd of September, and none fell during the "Hathia Naichatra" (26th September to about 10th October); the demand for water was accordingly most keen. The rainfall in the rabi season was considerably above the average, and it is interesting to observe that, in spite of this fact, the area of rabi irrigated was the largest on record. This exemplifies the effect of deficient rainfall in September and October in producing a large rabi demand.

80. There was no high flood in the Sone during the year. The highest level at the Dehri weir was 1.50 feet lower than the highest level in 1895-96, as is shown in the statement below. The R. L. of the crest of the weir is \$34.00:-RIVER SONE.

1	1895-96-3 18		0th June 95.	1896-97—3	Oth June 96.	Highest known. 1876 77-7th July 1876.		
			Above weir.	Below weir.	Above weir.	Below weir.	Above weir.	Below weir.
	1	1	2	8	4	5	6	7
Dehri	***	***	R. L. 238·80	Not record- ed, as the river rose	R. L. 337 30	R. L. 390 20	R. L. 842·10	R. L. 841 00
Barun	***	***	340:30	at night	338.70	386.80	843.50	343 70

The highest flood readings recorded in this circle for the river Ganges in 1896-97 were:-

River Ganges.

T	Date.	D1'	H	Highest known since 1875.				
LOCALITY.	Date.	Reading.		Reding				
1	2		3,		4		5	
Busar Deegah Hajipur, confluence of rivers Ganges and Gandak	20th August 21st "	1896	R. L. 195·72 164·63 161·60	6th 14th 14th	August	1875 1879	Rs. 200·71 169·20	

IRRIGATION.

81. The irrigation for ten years, together with the rainfall over 16 stations actually situated on the canal-irrigated area, is shown below:—

YBA	YEAR. Khari		Kharif. Rabi.		Total.	Rainfall	
1		2	3	4	5	6	
	i	Acres.	Acres.	Acres.	Acres.	Inches	
1887-88		220,428	69,945	25,007	315,380	40.18	
1888-89		238,895	100,142	16,872	355,909	45.43	
1889-90		230,741	55,613	18,928	305,282	49.65	
1890-91		211,726	51,318	17,970	281,014	52.73	
1891-92		248,819	210,907	- 14,997	474,723	26.82	
1892-93		274,839	126,195	9,727	410,761	37.69	
1893-94		280,528	66,458	19,790°	366,776	46.62	
1894-95		255,361	41,664	17,109	317,134	59.65	
1895-96		261,485	115,343	18,394	395,222	38.36	
1896-97		316,941	215,390	22,825	555,156	30.59	

. Hot-weather crop.

The total area irrigated was 159,934 acres more than that in the previous

IRRIGATION (UNDER LEASES UNDER RULES OLD AND HEW.)

82. The following statement gives the areas of each crop irrigated under annual and five-year leases for 1890-91 and 1891-92 and under season and long-term (seven and three-year) leases from 1892-93 to 1896-97 under the new rules:—

	Crop.	1890-91.	1891-92.	1892-93.		1893-94.	1894-95.	1895-96.	1896-9
	1	2	3	4	5	6	7	8	
		Acres.	Acres.		Acres.	Acres.	Aores.	Acres.	Acres.
Kharif	Five-year leases Annual leases	189,227	200,716 48,103		235,637 39,202	254,515 26,013	284,756 24,605	227,761 33,724	244,122 72,819
	Total	211,726	248,819	2	274,839	280,528	258,361	241,485	316,941
Rabi	Five year leases Annual leases	20 761 20,632	20,274 177,308		36,329 89,866	37,231 29,227	30,234 11,430	31.157 84,186	30.709 184,681
	Total	41,393	197,582	15	26,195	66,458	41,664	115,343	215,390
Sugarcane	Five-year leases Annual leases	13,568 4,402	13,801 1,196	•		•	•	•	
	Total	17,970	14,997	00000			• • •		
Hot-weather	•••	9,925	13,325	Season leases	9,727	19,790	17,109	18,394	22,82
GRAN	ND TOTAL	281,014	474,723	• 41	10,761	366,776	317,134	395,222	555,100
Total five	re-year leases		234,791 289,982	Total long-term leases 27	71,966 38,795	291,746	263,990 53,144	258,918 136,304	274,831 280,833

<sup>.</sup> Under the naw rules or the Sone Canals there are no separate leases for sugarcane; they are included in each season lease.

The total areas irrigated under each form of lease are abstracted as follows for convenient reference :-

				1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
Are	a irrigated	under long-term leases		Acres. 271,966	Acres. 291,746	Acres. 263,990	Acres. 258,918	Acres. 274,831
29	39	,, season leases		129,356	74,292	51,913	120,392	259,323
91	, ,,	by sale by volume		2717	57 681	55 1.176	13,856 $2,056$	18,100 2,902
29	99	without permit	***	0,121		-,,,,,	2,000	2,002
		Total		410,761	366,776	317,134	395,222	555,156

The areas irrigated in 1896-97 in both the kharif and rabi seasons are the

largest on record. The Superintending Engineer gives the following graphic description of the irrigation seasons and of the measures taken to cope with the unprecedented demand on the canals:-

"In the kharif season there were two periods of great pressure-in the transplanting senson in August, and in October. The average discharges of the canals in August were about 10 per cent. larger than have ever been carried before in that month. The greatest difficulty was found in many places in gotting the water to the fields in the lower parts of the areas leased. The cultivators in the upper parts of the village channels consumed the discharge allotted to the village. In the same way there was a difficulty in getting the water to the ends of the distributaries: the villages which had leases in the upper reaches drew all they possibly could, and the canal officers had, in some cases, to forcibly restrict the discharge of the upper outlets in order to force the water to the lower ones. The same difficulty occurred in the main canals, the lower extremities were indifferently supplied. All canal officers were busily employed trying to distribute the water equitably, and, in the end, with fair success; but, had it not been for the rainfall after the 21st of August, there would have been some leases in which canal water would have been insufficiently supplied. As it was, there were some few cases on high lands and on sandy lands where the supply given was short of the requirements, and a good deal short of what the people would have liked to have had. Indeed, if the water from the 21st July to the 21st of August had been supplied according to what the people wanted, the canals would have had to have been twice the size they are. The whole country was clamouring for water at the same time, and it took a month at least to supply water to transplant all the fields under lease, even although a rigid system of tatils was enforced. The people complained bitterly of the

tatils, but without them the irrigation could not have been completed at all.

In September 1896 rainfall was less than 21 inches in the tract commanded by the canals; there was consequently a pretty strong demand for water during the whole month. It is usual for the cultivators to nigar their fields, that is, to drain them off in the middle of September, before the Hathia naichhatra, but this was not generally done. On the 22nd of September 1896 the rains ceased entirely. In the Hathia (26th September to about 10th October) and during the whole of October there was no rain at all. The demands for water were again insatiable. Usually the demand slackens after the 15th or 20th October, but in 1896 it was continuous all through the month. The kharif season ends technically on the 25th October, but water was supplied for rice crops up to the end of the first week in November, and the fact that water was given so late for the rice crop prejudiced the rabi area to a certain extent, as a larger area of that crop could have been watered if the available supply had not been absorbed by the rice in the early part of November.

Succial measures were adopted in October to ensure a larger supply of water than usual. The shutters of the weir were specially treated. The Main Western Canal was run at higher levels than have ever been previously recorded. The Superintending Engineer found it necessary to be constantly on the spot encouraging larger and still larger discharges; all the subordinates feared to exceed what they thought was the limit of safety, and they were right to be cautious. No doubt the canals were forced at some risk; but the result was successful and the fact has now been established that the canals will carry a good deal more than is laiddown as their maxima. . But of course such discharges need care and intelligent supervision.

The average discharges during the ten days of greatest pressure, when the largest quan-

tities were passed, have been :-

	Cubic feet per second.			Oubic feet per second.	
Main Western Canal	E	as compared	with	4,009	the previous maximum.
in October 1896.		as compared	with	1,733	the previous maximum.
in October 1896.					-la During the

Rut even these discharges were insufficient to please the people. During the end of September and the first fifteen days of October, the discharges were limited by the capacity of the canals After that the discharges of the canals were limited by the amount of water of the canals are limited by the amount of water of the canals are limited by the amount of water of the canals are limited by the amount of water of the canals are limited by the capacity of the canals were limited by the amount of water of the canals are limited by the capacity of the canals are limited by the capacity of the canals are limited by the capacity of the canals were limited by the capacity of the capa

The level of the water in the river fell below the crests of the shutters: all the leakage was stopped as far as possible: a staff of men was employed stuffing every oranny in the shutters with straw, and all the water the river could supply was sent down the causls. The gauged discharges showed that the supply in the Sone was only 5.610 cubic feet per second on the 25th of October 1896, as compared with 8,542 cubic feet, which was the minimum previously recorded since observations of the river in October were commenced in 1885."

Distribution areas irrigated in 1896-97, in each division and subdivision, are shown below:—

			Acres.	Acres.
Eastern Sone Division-				
Daudnagar subdivision	***	***	53,676	
Bikram ditto	***		54,762	
				108,438
Arrah Division-				
Nasriganj subdivision			40,771	
Koath ditto			75,668	
Ramuagar ditto			66,812	
Ageaon ditto		h g 3	50,777	
				234,028
Buxar Division-				
Sikroul subdivision			92,976	
Jamrore ditto	* * *		72,389	
Basawan ditto			47,375	
				212,690
	Total		•	. 555,156

LONG-THRM

Particulars of the long-term leases are given in the following statement:

	Leases which laps		LEABER IN	1896.	IST APRIL	LEASES ENT	Total area	
Division.		March 1896.	Seven-year leases.	Five-year leases.	Three-year leases.	Seven-year leases.	Three-year leases.	under lease term lease in 1396-97
1		2	3	4	5	6	7	В
		Acres.	Acres	Acres.	Acres.	Acres.	Acres.	Acres.
Eastern Sone Arrah Buxar	•••	20,025 34,697 15,184	47,537 82,694 42,086	000	545 1,128	12,579 45, 20 24,758	644	60,661 1:33,08 <b>6</b> 66,844
Total		69,906	172,317		1,673	85,957	644	260,591

Five-year leases have now entirely disappeared, and the remaining three-

year leases will soon expire also.

The Superintending Engineer remarks that during the year 1897-98 only a few three-year leases expire, and there is no doubt that the area under lease will exceed the 275,567 acres which was the area leased as long-term leases in 1893-94. Indeed, in the Arrah Division the area under lease is above the previous maximum in that Division.

THATTHO-MEET IRRIGA-TION.

83. The assessments for the unauthorized use of water, and for wastage, were in excess of those of the previous year. The figures for the last five years are given below:—

		1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
		Ra.	Rs.	Rs.	Rs.	Ro.
Unauthorized use of water Wastage of water	•••	14,549	4,760 615	6,910 682	8,568 1.103	13,258 2,460

The assessments for wastage of water were almost entirely made in the rabi and hot-weather seasons, there was little or no wastage in the kharif season.

84. The assessments for water sold by "volume" amounted to Rs. 28,143,

against Rs. 22,395 in the previous year.

The approximate area irrigated is given below :-

	Div	ision.		Approximate area, 1896-97.	Approximate area, 1895-96.
	1			2	3
Eastern Arrah Buxar	Sone	•••	•••	Acres. 8,143 6,955 3,002	Acres. 357 2,948 10,551
	1	otal	•••	18,100	13,856

The Superintending Engineer writes:-

"The amount of water sold was limited by the quantity available: there was a very large demand, but it was impossible to satisfy it, simply because the supply of water was consumed by those who had the right to it. The largest sale by vloume was effected in the Bikram subdivision of the Eastern Sone Division, where the zilladar, Babu Jharkandi Lall, was particularly energetic in the matter. The Ageaon and Koath subdivisions also did very well. This system of sale by volume gives a great deal of trouble to all concerned with it, and is open to much abuse, but there is no doubt that it was the means of saving some 18,000 acres of rice from total loss.'

The following statement shows the areas of the several crops actually irrigated in each Division since the year 1892-93, when the new rules came into force :-

IRRIGATION IN EACH DIVISION (UNDER THE NEW ROLES).

	BAS	TERN S	lonn D	IVIBION.			ARRI	RR DIAI	BION.			Bex.	AR DIVI	SION.		T	OTAL PO	R ALL D	IAITIOM	l.
YRAB.	90	SRAE	OF LE	ASES.		rases.	BRASON LEADES.			eases.	BRASS	ON LEAS	E6.	Cases.		SRASON LEASES.				
	Long-term le	Kharif.	Rabi.	Hot-wes-	Total.	Long-term	Kharif.	Rabi.	Hot-wen-	Total.	Long-term l	Kharif.	Rabi.	Hot-wes-	Total.	Lonk-term	Kharif.	Rebi.	Hot-wes-	Total.
1	3	3	4	В	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	23
	Acs.	Acn.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Aes.	Acs.	Aca,	Acs.	Acs.	Acs.	Acs.	Acs.	Acr.	Ace.	Act.	Aca.
199-03	64,801	7,873	6,987		79,661	124,814	14,835	35,996	4,664	180,300	82,351	10,494	46,983	5,063	130,791	271,966	39,202	80,860	9,727	410,70
DS-96	67,894	9,123	4,880	2,531	84,428	133,894	7,987	18,064	14,219	174,164	89,958	8,903	6,288	3,040	108,184	291,746	26,013	20,227	19,790	360,770
804.95	68,657	7,350	2,372	2,469	80,857	129,308	7,760	8,318	13,058	158,444	66,025	0,496	740	1,502	77,838	263,910	94,605	11,480	17,109	317,134
	71,273	6,710		3,610	87,026	127,788	10,313	32,336	13,087	183,474	59,907	13,701	45,817	1,697	124,120	258,918	83,724	84,186	18,304	895,22
896-67	63,120			2,198	108,438	142,155	17,384	\$9,553	15,986	234,029	69,556	31,604	106,834	4,096	212,690	274,831	72,819	184,681	22,825	555,186

The following table gives the duties obtained during the kharif and rabi seasons on the several canals for the last three years:-

Durn or

			Kharif.					
4		1896	5-97.	189	5-96.	1894-95.		
		Acres.	Duty.	Acres.	Duty.	Acres.	Duty.	
1	armone comment in regarding at a self-section	2	8	4	5	6	7	
Eastern Main Series	100	82,366	53.97	72,861	52.61	71,180	73.83	
Arrah Canal System	0.04	141,569	64:35	120,465	65.26	119,625	91.04	
Buxar Canal System	• • •	93,006	64.05	68,159	61.07	67,556	146.22	
Western Main Series	***	234,575	63.38	188.624	63:25	187.181	102.79	
Sone Canals	0.27	316,941	60.64	261,485	59.87	258,361	92.77	

#### Rabi.

		189	6-97.	189	5-96.	1894	-95.
		Acres.	Duty.	Acres.	Duty.	Acres.	Duty.
1		3	3	4	5	6	7
Bastern Main Series	•••	23,879	64.19	11,155	83.30	7,208	15.56
Arrah Canal System	***	76,523	87.26	49,922	70.70	25,761	68.51
Buxar Canal System	• • •	114,988	125.40	54,266	100.12	8,695	84.41
Western Main Canal Series	044	191,611	106.75	104,188	83.48	34,456	71.93
Sone Canals		215,390	99:44	116,343	72.87	41,664	44.28

## The Superintending Engineer remarks:-

During the ten days of maximum demand in October the duty was 54 acres to the cubic foot in the Western Main Series of Canals on the assumption that the whole area was irrigated in those ten days, which is not quite correct. The figure is, nevertheless, an evidence of progress, as hitherto 50 acres has been taken as the limit. During the month of October the average depth of water placed on each field in Shahabad, on the assumption that all the water reached the fields, was rather more than 12 inches."

The average duty for the Sone Canals, in the kharif season, was a little better than that obtained in 1895-96; the duty in the rabi season was considerably higher.

Observations have been made in the Arrah Division, for the last ten years, showing the aggregate depth of water placed on the rice fields during the months July to October, on the hypothesis that the entire "utilized" discharge of the canal reaches the fields. In 1896 the total depth of rain-water and canal-water on the fields was 4.78 feet as compared with an average of 5.51 feet for the previous nine years.

year to determine the yield of rice and wheat crops irrigated from the canals are given in the following tables:—

TABLE I.

Result of experiments on "good" rice crops irrigated with eanal water for the year 1896-97.

	experi-	AVERAGE	DE TIELD P	ER ACRE WI	HIGHED		
Division.	er of	Grai	Grain.		Straw.		
	Number ments.	Maunda.	Seers.	Maunds. Seers			
1	2	8 4		8	6		
Rastern Sone Arrah	. 89	34 80 82	3 36 19	64 59 66	81 6 18		
Sone Cirole average	. 110	8.2	22	68	8		

N.B.-A good erop means a erop decidedly above the average crop in the village in which is was taken.

TABLE II.

Result of experiments on "average" rice crops irrigated with canal water for the year 1896-97.

			experi-	AVERAG	E YIELD I	PRE ACRE WE	IGHED
Drv	teron.	0	Number, of ments.	Grai	in.	Stra	w.
			Number ments.	Maunds.	Seers.	Maunds.	Seers.
	1		2	3	4	5	6
Eastern Sone Arrah Buxar		***	45 49 84	20 28 24	37 6 28	41 45 62	21 5 22
Sone Circle ave	erage	***	128	22	31	45	38

N.B.—An "average" crop means a crop that was considered as an average crop in any village in which an experiment was made.

TABLE III.

Result of experiments on "good" wheat crops irrigated with canal water for the year 1896-97.

		IRR	GATED W	VITH CA	NAL WAT	ER.	
Division.	Stanla	erperi-	Avi	RAGE YIE	LD PER ACRE.		
Davisson.	Staple.		Grai	n.	Strav	7.	
		Number of ments made	Maunds.	Seers.	Maunds.	Seers	
1	3	.8	4	5	6	7	
Eastern Sone Arrah Buxar	Wheat	6 18 13	13 17 17	15 23 8	18 30 19	31 26 17	
Sone Circle average		97	16	30	23	39	

TABLE IV.

Result of experiments on "average" wheat crops irrigated with canal water for the year 1896-97.

Bone Circle ave	rage		51	12	9	17	1
Rastern Sone Arrah Buxar	***	Wheat	14 19 18	10 13 12	36 37 21	16 21 13	16 6

New rules were issued by Government during the year for regulating the method of recording crop experiments, but they were not brought fully into operation.

DRMANDS, COLLECTIONS AND BAYAN-OSS,

88. The demands, collections, and balances of water-rates for the last five years are shown below:—

YEAR.	Amore outsing comme ment year	at nce- of d	Amount falling due for recovery luring the year.	Total for recovery.	Cash realisation.	Remitted or written cff.	Balance at the end of the year.	
1	2		3	4	5	6	7	
	Rs.		Rs.	Ru	Rs.	Rs.	Re.	
1892-93	1,11.4		9,50,733	10.62.176	9,59,472	14,914	87,790	
1893-94	87,7		8,63,161	9 40,951	5,34,261	4,483	1,01,858	
1894-95	1,01,8		6,86,105	7,88,773	7,43,843	4.001	40,809	
1895-96	40.1	-	6,56,246	6,97,065	6,69,1145	6,017	22,993	
1896-97	22,8	193	9,60,866	9,74,859	9,18,926	6,505	9,428	

There were no changes of importance in canal administration during the year. It was, however, the last year of the old rates; from the year 1897-98 the water-rates have been slightly increased.

89. In the following statement the Deputy Collector shows the extent to which the arrears as well as current demand have been worked off:—

ABRBAR

			politicals saling salida ;	Demand of 1896-9:, consisting of—	Collected or remitted in 1896-97.	Percentage of demand adjusted.	Unadjusted balance at close of year.
	1			2	8	4	6
Arrears of 1894.95 Do. of 1895.96	***	•••		Rs. 954 22,039	Rs. 897 21,640	94·24 98·19	Ra. 56 399
Total arrears outstand Current demand for 18	ing on 1st Ap	ril 1896		22,993 9,50,865	22,539 9,4.,891	99·05	464 8,974
		Total		9,73,858	9,64,430	89 03	9,428

The results which this statement exhibits are received with great satisfaction. They are most creditable to the Deputy Collector, Moulvi Syed Mohomed Nassiruddin, and his staff. The current demand is unusually large and the arrears are unprecedentedly small. The percentages of collections are unrivalled.

COLLECTIONS.

90. The following statement gives the collections in each district:-

		DEMAND.			Angust	TMENTS.		Balance en	Permen- tages,	
District.	Arrears on Current Stat March demand for 1896. Total		Total.	Collection. Inude by		Written off as ittel.	as irried. Total.		column B column 4.	
1	2	8	4	Б	6	7	8		3.0	
Shahabad	8,856	Rs. 7,53,751 95,659 1,61,455	Rs. 7,67,511 99,615 1,06,882	Rs. 7,64,529 90,866 1,06,037	Ra. 4 (125) (286) 450	Ra. 045 31	7,61,236 96,794 1,46,485	Ra. 6,277 2,809 361	Ra. 99°18 97°10 99°67	
Total .	22,993	0,50,888	9,73,858	0,88,925	4,789	717	9,64,430	9,438	99:00	

Beides the collections of Rs. 9,58,925 shown above, a further sum of Rs. 425 was credited to water-rate accounts as below:—

					118.
Surplus or exces	s recoveries	4 046	0 0 0	***	(-)1,199
Process fees in c	ertificate cases		800	0.09	1,539
Miscellaneous		> 9 0		0.0.0	00
			Total	000	425

91. The sums remitted in 1895-96 and 1896-97 according to the figures REDITIONS. given by the Examiner of Accounts were—

						1895-96.	1896-97.
By Canal By Civil	officers	100	***	***	***	Rs. 907 4,110	Rs. 4,059 1,446
				Total		5,017	5,506

According to the figures supplied by the Superintending Engineer the remissions were—

	1895-96. Rs.	1896-97. Rs.
	-	
Written off by Civil officers as irrecoverable Remissions granted by Executive Engineers, includ-	3,811	716
ing refunds  Extraordinary remissions by Superintending Engi-	2,430	8,529
neers	000	730
Remitted on revised and cancelled khatianis	4,574	4,527
Total	10,113	14,502

The amount written off as irrecoverable was very small, and was much less than in any previous year.

Of the Rs. 8,529 remitted by Executive Engineers, Rs. 4,471 were in reality refunds on account of amounts which had been recovered by the Deputy Collector before the remission statements had been received by him.

The following table explains the remissions made by Executive Engineers:—

Cla ss.	Causes.	Eastern Sone Division	Arrah Division.	Buxar Division.	Tctal 1896-97.	Total 1895-96
1	2	3	4	5	6	7
		Re.	Rs.	Rs.	ks.	Rs.
4	Charge by mistake for land culti-					2.0
Ъ	vated by others Excess measurement or errors in	***	***	3	3	18
0	cultivation	80	344	389	813	432
C	Lift charged as flow	2	28	15	45	5
d	Irrigation not denied, but remitted				-	
	as not chargeable under the Act	1	13	51	65	99
8	Land not having been irrigated at	51	274	288	613	1,392
1	Injury to crop due to insufficient		01.2		010	1,000
	supply	262	1,312	2,239	3,813	29
9	Land thrown temperarily out of					
	oultivation (applicable to long leases only)	37	4	1	42	
À	Failure of crop originally sown,	0,	7	_ ^	74	8 * 4
	Rule 82	589	280	2,006	2,935	341
i	Land appropriated for other pur-					
	poses than cultivation Double assessment, as when land	000	3		3	9
j	assessed on a season lease is sub- sequently included in a long lease					
	in the same year	32	16	149	197	195
	Total	1,354	2,274	5,201	8,529	2,430

The totals for the last five years are given below:-

 1892-93.
 1893-94.
 1894-95.
 1895-96.
 1896-97.

 Rs.
 Rs.
 Rs.
 Rs.
 Rs.

 4,620
 2,180
 2,640
 2,430
 8,529

The remissions were unusually large during the year, owing partly to the fact that the Superintending Engineer issued orders that, as the year was one of extreme pressure in the kharif season, remissions were to be given more freely than usual when there were bad crops; partly to the fact that the large area irrigated naturally involved larger remissions; and partly to the fact that caterpillars did a good deal of damage in some parts to the rabi crops.

The percentage of remissions on the gross demand was as follows in each

Division :-

Percentage of remissions to gross demand.

				^
			1895-96.	1896-97
Eastern Sc	ne Division	• 4.0	 0.05	0.22
Arrah	ditto	***	 0.05	0.31
Buxar	ditto		 0.28	0.66

REVENUE POTABLISH-MENT. 92. The following statement shows the expenditure on the revenue establishment for the last five years:—

	PARTIC	ULARS.		1892-93.	1893-94	1894-95	. 1895-96.	1896-9
	1			2	3	4	5	6
	Establishment u	nder Collec	tor.	Rs.	Rs.	Rs.	Ra.	Ra.
2. 3. 4.	Permanent estable travelling allower Temporary establis Contingencies Headmen's fees to patwaris	ances	in cluding	58,538 3,070 2,663 2,580 1,152	55,308 2,903 4,274 5,166 368	54,311 3,217 5,596 8,309 114	55,466 3,960 4,248 11,916	62,683 3,030 6,053 2,773
Tota	d establishment und	der Collecte		68,003	68,019	71,547	75,590	74,489
Pern inc Cont Wat Head	Exacutive E  manent and tempor cluding travelling of ingenoies er-regulation estable dmen's fees	rary estab allowances ishment	lishment,	52,187 4,768 2,310 32,032	49,930 3,426 2,277 26,080	45,335 3,936 2,246 23,896	46,703 2,745 2,270 15,003	51,357 4,240 2,357 18,087
De	l establishment und ers	ler Execut	ive Engi-	91,297	61,713	75,413	66,721	76,041
		Total	***	1,59,300	1,49,732	1,46,960	1,42,311	1,50,530
res	etions of water-rate venue by the Canal ant	and mise Revenue	Depart-	9,71,202 16·4	8,45,177 17·7	7,45,691 19·7	6,79,702 20·9	9,59,350

The increase in permanent establishment and travelling allowances, under Collector, is due partly to increase in salaries consequent on promotion, but mainly to increase in travelling allowances due, apparently, to the greater activity of the staff. The increase in contingencies is partly due to the cost of altering a number of old receipt forms which were in stock. The increase in the establishment under Executive Engineer is mainly due to extra temporary establishment necessary to deal with the increased area under irrigation. The percentage is the lowest on record.

93. The total cost of the revenue establishment under each Executive Engineer, per acre irrigated, is shown below:-

				1896-97		1895-96.
	Division.		Revenue* establish- ment.	Area irrigated.	Cost per acre.	Cost per acre.
	1		2	3	4	5
Eastern So Arrah Buxar	ne	,	Rs. 16,540 33,053 26,450	Acres. 108,438 234,028 212,690	A. P. 2 5 2 3 1 11	A. p. 2 11 2 7 2 8
Total	Sone Canals		76,043	555,156	2 2	2 8

<sup>·</sup> Includes proportion of water regulation establishment employed on the head works.

94. The following statement gives particulars of the disposal of complaints. Claims for ordinary remission are distinguished from other complaints, such as petitions alleging demage from the canals, complaints against individuals, and other miscellaneous claims. The totals are compared with those of the two previous years:-

		CLAIMS	DOB ORDINA	RY REMISS	no,	Отивв	COMPLAIN	NTG.	Total complaints received during	
DIVISION.		Received during the	Dispo	sed of.		Received during the	T)		the year, excluding those pend-	Pending
		year and pend- ing from previous year.	Remission allowed.	Remission refused.	Pending.		Disposed of,	Pending.	ing from previous year.	
1		3	8	6	8	6	7	8	9	10
Arrah	0 o d	No. 625 3,549 4,754	No. 241 1,218 1,846	No. 316 2,101 2,363	No. 65 235 846	No. 44 184 360	No. 41 130 223	No. 8 84 138	No. 696 8,623 6,746	No. 68 289 683
Total, 1896-97		8,928	3,303	4,780	845	588	193	195	9,005	1,040
Total, 1895-96		3,175	1,127	1,948	600	186	175	11	8,680	811
Total, 1894-95		2,641	866	1,708	67	124	116	8	8,557	75

The Superintending Engineer states that an increase in the number of complaints was to be expected in a year of such large irrigation. They involve a very great deal of work.

95. The following statement shows the number of appeals to the Collectors of districts against Executive Engineers' decisions, and how they were disposed:-

2	Number of	APPEALS—	Appeals	Appeals dis-	
Division.	Pending from last year.	Instituted dur- ing the year.	allowed.	Appeals discharged.	Pending
1	2	8	4	5	6
Eastern Sone Arrah Buxar	No. 1 1	No. 1 11 5	No.	No. 2 5 4	No
Total	2	17	•••	11	8

96. Twenty-five cases were tried by Executive Engineers vested with Act. III. (B.C.) Magisterial powers under the Act. Thirty-three persons accused were convicted, and nine discharged. The fines imposed amounted to Rs. 248, and the number of days' imprisonment aggregated 67.

ORTHFICATE 97. The Special Deputy Collector in charge of the collections continues to deal with the certificates required in realizing water-rates.

to deal with the certificates required in realizing water-rates.

A comparative statement of certificate cases instituted during 1895-96 and 1896-97 against defaulters, for failing to pay water-rates, in the districts of Shahabad, Patna and Gaya, is given below:—

		SHAB	HABAD.			PAT	MA.			GA	XXA.			TOTA	L
	185	95-96.	1896	-97.	1806	-96.	180	6-97.	189	5-96,	180	6-97.	1895	-06,	100
	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Nambor.	Amount.	Number.	Amount.	Namber.
	3	3	•	5	6	7	8	9	10	11	18	18	14	15	10
		Re.	1			Re.		Ra.		Re.		Ba.		Re.	
Cases for disposal— Cases pending at the close of the pre- ceding year.	66	1,406	6	20	8	81		104	1	4	8	107	70	1,440	
Cases instituted during the year	1,096	8,919	913	9,438	1,08	808	84	964	85	R23	40	1,018	1,253	9,861	1,036
Total	1,169	9,617	918	9,461	105	637	86	866	86	677	48	1,125	1,323	11,031	1,044
Dass disposed of— By being struck off, owing to the de- mand having been sentitted and	80	675	19	280		. 00		***		***			30	073	19
cancelled.  By being wholly satisfied	1,117	8,913	891	8,456	105	537	86	806	54	770	48	1,195	1,276	10,220	1.00:
Total	1,156	9,568	910	8,744	105	537	84	880	54	770	42	1,125	1,315	10,895	1,036
Balance outstanding at close of the year	6	29	8	717					3	107			8	186	6

The statement shows that 1,036 cases were instituted during the year,

against 1,253 and 2,049 in the two previous years.

There were 292,536 rate-payers, out of which number certificates were filed against 1,036 only. The collections were made with very little friction, the number of certificates issued being less than in any previous year.

98. The navigation receipts for the last five years are shown in the statement below:—

## NAVIGATION RECEIPTS.

Total		SERIES.	MAIN .	Wastri	RASERRY MAIN SEREES.						
tollage only.	Total.	Trans- port ser- vice re- ceipts.	Tollage receipts.	Number of miles open.	Trans- port ser- vice re- ocipts.	Tollage receipts.	Number of miles open.		YRAR		
9	8	7	8	6	4	8	3		1		
Rs.	Ra.	Ba.	Rs.	No.	Rs.	Re.	No.	1			
49,996 60,548	<b>5</b> 9,089 <b>6</b> 0,02 <b>5</b>	9.093*	29,164	1921	***	20,832	86}		000	1892-93	
49,344	58,809	9 477*	27,594	1321	1.04	22,954	861	***		1893-94	
61,870	61,261	9,550*	29,562	132	***	19.787	864	0.00	***	1894 95	
56,44	70,006	13.561*	29,288	1921	***	22,082	85		***	1896-96	
	10,000	10,001	36,156	132		20,249	861	141	* 4.4.	1896-97	

There is no longer any Government transport service. These receipts are on account of hire of steamers, boats and supplied

The increase of Rs. 5,075 in the receipts is mainly due to the transport of railway materials for the Mogulserai Gaya-Railway near Dehri.

#### TOLLAGE (ASSESSED).

YRAR.		Pa tna Canal system Nastern Main Canal series.	Arrah Canal system.	Buxar Canal system.	Total.
		2	3	4	6
1892-98 1893-94 1894-95 1896-36 1896-97	•••	Rs. 20,968 23,098 19,663 21,892 20,476	Rs. 18,196 19,812 19,837 17,861 28,105	Rs. 10,869 7,490 9,800 11,273 9,544	Rs. 50,028 50,430 49,100 51,026 58,125

#### COMPARISON OF TRAFFIC.

age Alabam		1892-9	1893-94.	1894-95.	1898-98.	1896-97.
1		2	8	4	6	6
Number of miles open Toll collections Collections per mile Boats, including empties Tomage of boats Estimated value of cargo, cluding rafts	No No Tons in Rs.	218} 50,028 229 6,710 97,841 57,32,365	218} 50,430 230 6,666 98,551 61,19,288	218 49,300 225 6,119 86,573 49,20,464	2183 51,026 234 5,838 78,441 50 04,985	218] 68,125 266 6,944 105,665 57,87,241

The contract for the transport service continued with Messrs. Radford & Co., the rates being Rs. 750 per month for the hire of steamers, and Rs. 1,250 for compounded tollage. The ordinary repairs to the steamers, which belong to Government, are executed by the lessees.

The following table shows the extent of the steamer traffic:-

PARTICULARS.	Patna Canal.	Arrah Canul.	Buxar Canal.	Total.
1	2	8	4	5
Passengers carried { Up No.   Down ,,	3,925	18,181	6,562	23,668
	3,670	12,944	7,179	28,793
Cargo carried Up Tons	949	529	232	1,703
	844	660	408	1,912

On the Patna Canal the steamer makes one trip in a week each way. On the Arrah and Buxar Canals there is a bi-weekly service. Rupees 9,030 were realized during the year for the hire of steamers, and Rs. 4,531 for the hire of accommodation boats, mud punts, and jolly boats, as compared with Rs. 9,000 and Rs 891 respectively in the previous year. The increase is entirely due to the hire of mud punts which were let to Messrs. Bird & Co. for the carriage of the railway material to Dobri the railway material to Dehri.

MISCHELA MI-

100. The details of the miscellaneous receipts for the last five years are given below:—

Particulars.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	8	6
	Rs.	Rs.	Rs.	Re.	Rs.
Other canal produce Water-power Rent of buildings Fines   Mineries   Miscellaneous   Cost of process	805 862 967 1,198 8,807 962 9,241 523 2,9\5	780 1,164 1,651 978 8,921 20 9,014 697 2,628	867 1,671 2,793 1,716 8,207 456 12,772 582 2,432	847 8,239 1.605 1,180 8,068 218 13,279 553 1,893	1,280 2,958 1,927 1,347 9,364 208 13,030 342 1,639
Sale of old materi	36 9,529	139 2,736	4,05 <b>6</b>	2,768	279 5.597
Total	29,214	29,578	35,620	88,148	30,961

MADIFICATION RANGES AND REPAIRS.

101. The expenditure on maintenance and repairs, by main sub-heads, for the last five years is shown below:—

Particclars.		1892-93.	1893-94.	1894-95.	1595-96.	1896-97.
		2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.	Ra.
Head works	•••	22,374	27.297	29,618	21,077	24.188
Main canal, including branches		2,00,130	1,89 160	1,4%,128	75,573	\$3,880
Distributaries	00-	2,167	3.014	87,803 4,879	33,±01 2.2-3	12,815
Drainage and protective works Cost of working transport service	***				. ,	783
		* * *	***	***	33	2
Total .		2,80,679	2,66,928	2,20,227	1,32,057	1,61,717

<sup>•</sup> Includes Rs. 600 for the Arrah-Dehri Telegraph line and Rs. 401 on account of theft money in the Revenue Division and of money embession in the Patna district.

REPAIRS TO

OF MAIN CANALA AND DINTRIBU-

TARIES.

102. The cost of repairs to head works during the last five years was:-

	1285-89	1893-94.	1894-95.	1899-96.	1896-97.
	Rs.	Rs.	Rs.	Rs.	Ra.
Weir on Sone River	 14,058	18,262	22,426	13,922	16,542
Other works	 7,577	8,301	5,696	6,344	7,432
Total	 21,635	26,563	28,122	20,266	23,974

The expenditure on the Sone weir was increased by the repair of the pitching of part of the weir which had, in the course of years, been displaced to some extent.

103. The following table details the expenditure on maintenance and repairs in each division for the last three years:—

	A	ARRAH DIVISION.		Bux	BUXAR DIVISION.		EASTERN SOME DIVISION.			TOTAL		
	1894-95.	1893-96.	1896-97.	1894-95.	1895-96.	1896-97.	1894-95.	1895-96	1896-97.	1894-95.	1895-96.	180
1	2	3	4	5	6	7	8	9	10	11	12	1
Western Ma'n Canal lastern ditto lanals lastributarius Prainage and protective works	Rs. 37,698 21,060 12,169 16,574 1,062	Rs. 11,106  14,591 10,158 15,253 989	Ra. 14,601 18,663 8,393 17,901 120	Ra. 9,826 12,801 7,291 11,927 843	R*. 3,331 9,199 6,748 10,337 448	Ra. 4,109 10,415 9 196 11,761 303	Re. 30,280 18,293 9,003 2,475	Ra. 6,799 12,077 7,510 1,411	4,731 13,189 10,200 355	Rs. 47,021 30,288 52,154 20,460 57,-64 4,890	Ra. 14,437 6 799 85,867 17 206 33,192 2,281	1,50
Total	80,860	51,799	59,678	42,188	30,063	39,687	6:,057	27,830	28,175	1,92,105	100000000000000000000000000000000000000	1,00

<sup>\*</sup> Exclusive of Rs. 2,075 expended on maintenance and repairs in the Sone Canals, Revenue Division, and Rs. 23 paid for compensation of Exclusive of Rs. 23,974, Rs. 2 and Rs. 6,048 expended on maintenance and repairs. Sone weir and head works, compensation, and relatively.

The expenditure on "Maintenance and Repairs" exceeded that of the previous year by its. 18,048. The increase occurred, mainly occause there was a closure of the canals in the year under review, and partly because extra silt clearance in front of the locks on the canals was necessary on account of the unusually large amount of silt in the water. The expenditure was, however, considerably below the average.

considerably below the average.

104. The following table gives particulars of dredging during the year, compared with the results of the two previous years:—

SHIT-CLEARING AND DREDGERA.

		1894-95.			1895-96.		1896-97.			
CABALA.	Quantity dredged.	Cost, includ- ing removal over apail bank, or discharge into river.	Rate per 1,000 cubic feet.	Quantity dredged.	Cost, includ- ing removal over spoil bank, or discharge into river.	Rate per 1,000 cubic feet.	Quantity drodged.	Cost includ- ing removal over spoil bank, or discharge into river.	Rate per	
1	2	8	4	5	6	7	8	9	10	
Enstern Main and Patna Canals	C. ft.	Re. 6,644	Rs. A. P.	C. ft.	Re. 3,353	Re. A. P.	C. ft.	Ra.	Rs. A. P.	
Western Main Canal (1—9 miles) River Score	4,272,874 3,704,946	26,211 6,533	6 2 1	41,748 2,335,863	192	4 4 7	34,716 3,244,3¢5	2,759 67 5,079	1 14 0	
Head Lock	65,195	245	8 12 6	35,894	190	5 4 8	31,156	98	1 9 0	
Total	8,043,015	32,990	4 1 7	2,416,505	4,245	1 12 1	8,310,287	5,244	1 # 4	

The rates given above include the cost of lifting the silt into barges, and of carrying it over the spoil banks, or discharging it into the river.

The measures which have been adopted to check the deposit of silt at the head of the canals, have continued to work successfully, but the results are not quite as good as those of the previous year. Very large discharges were passed into the canals during the year, and there was much more silt in the water, as was proved by the analyses at Dehri. The increased quantity of dredging was, however, mainly connected with the channel across the river Sone which has to be cut every year. There was a reduction in the quantity and cost of the dredging done in the Main Western Canal and head lock

105. The expenditure on repairs to dredgers is shown below for the last four years:—

DREDGEN

			1893-94.	1894-95.	1895-96.	1896-97
	1		2	3	4	5
			Rs.	Rs.	Rs.	Rs.
12 Fouracras	dredgers		6,467	6,036	3,254	1,846
2 Bruce's	ditto		627	362	114	97
2 English	ditto		3,575	2,724	€60	188
Mud punts		•••	3,075	2,508	1,243	724
	Total		13,744	11,630	5,179	2,855

The reduction in the cost of repairs in the last four years is most mearked

The capital cost of the dredging plant now on the Sone Canals is given

	Two English dredgers.	Two old Bruce'n dredgers.	Twelve Fouracres' dredgers.	One new Bruce's dredger.	Mud punts.	Total.
1	8	8	4	6	6	7
Capital cost as shown in Appendix XII of the Revenue Report of 1886-87	Ra. 1,21,206	Ra. 33,027	Rs. 1,06,901	Rs.	Rs 2,:9,105	Ra. 4,90,235
Capital expenditure since 1886.87 up to 31st March 1897	*****	*** **	******	547	89,758	84,305
*Total capital cost of plant at end of 1896 97	1,21,205	83,027	1,06,901	547	3,12,863	5,74,648

There is a reduction due to the transfer of the second Bruce's dredger to the South-Western Circle. It would be possible now to sell some of the other dredgers if a purchaser could be found. Some of the Fouracres' dredgers will be dismantled.

The following statement shows the charges which should be added to the rates for dredging on account of interest on capital and repairs to the plant: no

allowance is made for depreciation of the plant :-

The second secon	PARTICULARS.		Prime cost.	Interest at 4 per cent.	Charge for in- ter at per 1,000 cubic feet.	Cost of repairs.	Charge for re- pairs Per 1,000 cubic fest.	Charge for in-
	1		2	3	4	5	6	y
l ouracres' dredgers	Quantity of sill lifted.  Eastern Sone Division Arrah Division Dehri Workshops Division Buxar Division	Oubic feet. 445,640 20°,195 2,067,685 012,472 3,346,004	Re	Re	Rs. s. r.	Rn.	Re. A. P.	1 19 3
Bruce's dredgers  English or ladder dredgers — Mud punts —In all Div	Dehri Workshops Division Ditto ditto	620,340 602,200 4,668,863	36,474 1,21,205 3,12,865 5,74,543	1,849 4,846 12,614 23,061	3 2 8 8 0 10 2 11 10	97 189 794 2,868	0 8 6 0 6 11 0 8 7	8 5 9 2 14 5

The Superintending Engineer gives also the following statistics of the gross cost of dredging work done on the Sone Canals, exclusive of hand clearances, but he points out that the figures do not include provision for depreciation of the plant:—

Pı	Presion.		thross quantity dredged in all divisions.	Cost of "lifting" and "discharging."	Repairs to dredg ing plant.	Total cash expendi- ture.	Interest on capital cost of plant.	Grand total.
			1		3	. 8	8 4	
Average of 6 March 1889.	years ending	Slat	Cubic feet, 10,977.393	Re. 62,826	Rs. 13,576	Ra. 76,401	Rs. 19,609	Rs. 96,010
Year 18*9-90 1890-91 1891-92 1892-93 1898-94	000 000 000	000	10,978.752 12,367,802 10,967,078 18,034,661 13,615,482	67,896 62,644 61,438 63,781 69,374	18,666 16,685 18,939 19,456 18,744	71,061 78,279 76,366 77,296 83,118	19,609 19,609 19,609 19,609 19,609	90,670 97,888 94,976 96,846 1,02,727
Average of 5 March 1894.	years ending	91st	12,060,768	62,925	14,087	77,012	19,609	96,621
Year 1894-95	•••		9,432,461	40,364	11,680	51,994	24,099	75,991
Year 1896-96	·		3,650,791	10,238	5,170	15,408	23,700	39,108
Year 1996-97	000	***	4,668,668	11,498	2,856	14,353	32,981	37,834

108. The quantity of silt cleared by hand from main canals in the Eastern Sone Division, and the cost, compared with the figures for the two previous years, is shown below:-

BILT CLEARED

		1894-95.			1895-96.			1896-97.		
	Quantity cleared by hand.	Cost.	Rate.	Quantity cleared by hand.	Cost.	Rate.	Quantity cleared by hand.	Cost.	Rate.	
1	2	8	4	5	6	7	8	9	10	
m Main and Patna Canals	C. feet. 5,495,278	Rs. 23,377	Rs. A. P.	C. fcet.	Rs.	Ra. A. P. 3 1 2	C. feet.	Ro. 2,658	Re. 4. 2	

The Superintending Engineer writes:

years:-

"The Eastern Main and Patna Canals were closed from the 25th of April until the 11th June 1896. During the closure the base of the canal near the head, where it had been reduced in the previous year to 100 feet, was still further reduced to about 80 feet by the construction of a berm on the left bank. The effect appeared to be satisfactory. There was, however, somewhat more deposit on the head of the canal than in the previous year, but no dredgers were worked at all in the first reach, and there was no difficulty whatever in passing the full discharge into the canal.

The work done by hand in the Eastern Main Caual was the construction of the berm for reducing the bed width of the canal. This will not be required in future.

There is a large increase in the dredging rate; this is due to the small amount of work done, and to the fact that charges for establishment are incurred when the dredgers are not working at all. The dredging work was done entirely by Fouracres' dredgers.'

The Main Western Canal was closed from 26th March to 6th April 1896, but no silt clearance by hand was carried out between the Head and the Regulator, except that Rs. 324 was spent almost entirely on silt clearance at site of the slip at Dehri.

In the Arrah Division silt clearance by hand to the extent of 1,019,222 c. feet costing Rs. 2,204 was executed during the year. Of this, 268,677 c. feet was in the main canal, and the remainder in the distributaries, where the deposits were larger than usual.

In the Buxar Division during the closure the following silt clearances were effected by hand:-

*						C. ft.
In the Main W				400		288,594
Oleaning channe	els above s	and below loc	ke			169,807
Other places	***				a b b	48,680
				Total	•••	507,081

And in the distributaries during the year 500,426 c. feet of silt were excavated, but most of this was done, not for the purpose of silt clearance, but with the object of strengthening the banks of the distributaries.

The following figures give the cost of weed clearing for the last five 107.

Division.	1892-	93. 1893-	94. 1894-95	. 1895-96.	1896-97.
1	2	3	4	5	6
Arrah	1,4	66 5 66 1,3 35 1,6	84	1,748	
Total	3,8	350 4,7	65 3,090	0 2,221	1,780

DISTRIBUTA-2124

The following statement compares the cost of repairs to main canals RATES OF AND LEAST AND CAMALS AND TOO TO THE PARTY OF AND CAMALS AND TOO TO THE PARTY OF AND CAMALS AND TOO TO THE PARTY OF THE PARTY O

			1894-95. 1895-96.			1896-97.		
CANAL.	Division.		Number of miles.	Cost per mile	Number of miles.	Cost per mile.	Number of miles.	Cost per mile
1	3		8	4	5	6	7	8
			No.	Rs.	No.	Ra.	No.	Rs.
Eastern Main Canal .		***	71	4,163	71	910	7}	625
Western ditto	Dehri Workshops Buxar		9 121	4,973	9	1,382	9	1,721
Buzar Canal	Da		461	181 282	121	160 203	12}	267
Patna do.	Toutown Some	• • • •	79	231	79	153	45± 79	230
Arrah do			651	818	601	216	651	167 279
Dumraon Branch			401	132	40	114	40.	1.7
Behea ditto			81	268	81	190	81	119
Chowsa ditto			891	88	394	98	894	136
Gurrah Chowbey Branch		***	38	89	38	76	88	122
Distributaries	Arrah Buxar	0.9 1	470	36	470	92	470	38
Distributaries	The starm Same	. 6 -	4081	29 25	409	25	400	38 36 29
	Enstern Sone	001	3501	ZD	3501	21	360	29

TIONS,

109. The number of trees, classified according to size, in the plantations on the canals in each division, is shown below:-

				1800	-96.			119	6-97.		İ	
	Divisions.		Trees over 12 foet in height.	Saplings be- tween 4 and 12 feet.	Rendlings and	Total,	There over 12 feet in height.	Sapings be- invest 4 and 12 feet.	Seedlings un-	Total.	Increse.	Decicane,
	1		3	3	4	5		7	8	9	10	11
Dehri Work		000	No. 101,515 60,112 40,789 25,671	No. 80,812 18,150 7,798 9,217	No. 41,363 23,260 6,372 16,756	No. 173,500 106,529 65,958 51,644	No. 108,485 64,640 44,663 36,188	No. 28,397 10,385 6,520 9,372	No. 38,644 24,198 6,598 11,495	No. 169,466 49,467 62,583 47,085	No.	No. 3,936 17,591 3,366 4,886
	Total		243,056	65,683	88,761	397,830	242,616	84,678	70,783	360,047	0.11	29,473

The decrease is attributed to the great drought during the year, on account of which many trees, especially young ones died. Some trees were used for firewood in the dredgers,

The financial results of the year from plantations are expressed in the following table:-

Division.	Receipts.	Expenditure
1	2	8
	Rs.	Rs.
Eastern Sone Arrah Dehri Work-	654 1,490 520	712 1,643 1,664
shops. Buxar	294	1,077
Total	2,958	5,086

110. A sum of Rs. 1,347 was realized during the year from the leasing of mills, against Rs. 1,180 in 1995-96. The expenditure on their up-keep was Rs. 283, against Rs. 269.

The increase in receipts is due to the rent received for the Nasriganj tur-

bine, which is now leased for the whole year.

# CALCUTTA AND EASTERN CANALS.

The Capital and Revenue Accounts of these canals are given 111. below:-

1.-CAPITAL ACCOUNT.

CAPITAL

HE	ADS OF ACCOUNT	r.		Outlay during 1896-97.	Outlay to end of 1896-97.
	1			2	3
Direct charges Less-Receipts on capit	al account		• • •	Rs. 4,54,398	Rs. 59,30,004 54,467
	Total dire	et charges	***	4,54,398	58,75,537
Indirect charges	• • a	90	•••	14,577	79,791

The capital expenditure of the year was incurred on the work of canalizing the Bhangore khal, for which an estimate amounting to Rs. 10,84.513 was sanctioned in 1895. The amount expended during the year, including establishment and tools and plant, was Rs. 4,54,398, and the total expenditure on the work up to 31st March 1897 was Rs. 5,90,041.

The Superintending Engineer thus describes the difficulties attending the

construction of the Bamonghatta lock :-

"Owing to a large number of springs having been met with at about 5 feet below ground level during the excavation for the foundation of the lock at Bamonghatta the original site had to be abandoned, and a new one selected lower down the Bidhydaree closer to its banks. The excavation at this site was nearly taken down to full level when a large spring burst out in the bed, which was quickly followed by several others. The earth got too soft and wet to build upon, and it therefore became absolutely necessary to sink wells, but as considerable difficulty was experienced in sinking them, it was determined to abandon this site also. By going further away from the river bank a good foundation of blue clay was found both for the inner and other locks, which enabled the work to be carried out very quickly. The inner bay of the Kulti lock was completed by the end of Merch, but a good deal of difficulty was experienced in building the river side drop wall of the outer bay. This lock has since been completed, and the work in the supply and drainage sluice is also well advanced."

Very good progress was also made with the remodelling of the canal between the two lock sites.

2.—REVENUE ACCOUNT-(Actuals).

	EXPENDIT	URB-		RECEIP	Т9—
	During 1895-96.	During 1896-97.		During 1895-96.	During 1896-97
1	2	3	4	5	6
nirect Charges.  I.—Works, maintenance and repairs.  II.—Revenue management.	Rs. 2,39,670 49,966	Rs. 1,87,776 40,276	Miscellaneous	Rs. 4,34,275 21,228	Ra. 4,26,428 13,689
Total direct charges Indirect charges	2,80,636 11,004	2,28,052 2,707	Total  Less—Refunds of revenue.	4,55,50 <b>3</b> 259	126
Total working ex- penses.	2,91,640	2 30,789	,		
Total	4,55,244	4,39,938	Net total receipts	4,55,244	4,39,938

Norm.—The details by heads of expenditure for the year 1896.97, and nine preceding years, will found in the table given in paragraph 112 following.

PINANCIAL RESULTS.

112. The following is a statement of the receipts, working expenses, and net revenue of the canals, for each of the last ten years:—

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1992-93.	1H98-94.	1894-95.	1895-96.	1806-97.
1	3	8	4	5	6	7	8	0	10	11
Вновирте.	Rs.	Re,	Re.	Re.	Re.	Rs.	Re.	Ra.	Ra.	Ra,
Varigation	5,74,766 5,168	5,69,920 5,221	4,88,309 7,312	6,19,263 5,883	5,15,125 10,218	4,64,716 15,59N	4,07,696 13,129	4,30,769 12,688	4,34,275 21,236	4,26,426
Total	5,79,934	5,75,144	4,95,621	5,25,146 61	5,25,343 124	4,80,244	4,20,824 283	4,43,457 454	4,65,503 259	4,40,064
Not total receipts	5,79,934	6,75,125	4,95,543	5,25,085	5,23,219	4,80,114	4,20,641	4,43,003	4,55,244	4,39,93
WORKING EXPENSES.  DIRECT CHARGES.  1.— Works, Maintenance, and Repairs.										
Works (extensions and improvements) Maintenance and repairs Batablishment, including direction and accounts	1,478 1,04,527 49,248 18,139	4,573 1,63,636 46,981 29,054	1,344 1,68,318 50,618 13,510	36,676 1,49,572 64,041 30,691	36,289 1,72,457 65,757 12,541	() \$8,40% 1,66,228 48 754 13,207	53 1,64,943 54,856 14,745	1,766 1,66,876 55,769 13,968	13,239 1,65,477 37,637 30,317	49,06 1,31,65 (-)90,96 28,00
Total	1,73,392	2,44,264	2,30,687	2,71,280	2,87,044	1,99,686	2,34,597	3,36,369	2,39,670	1,87,77
II.—Revenue Management. Navigation Establishment	38,920	37,684	36.251	38.343	41,35P	29,935	39.344	59,553	40.966	40,27
Total direct charges	2,12,312	2,81,948	2,66,908	3,09,023	3,28,403		2,73,941	2,75,922	2,80,636	2,28,05
Indirect Charges.  Capitalization of abatement of land revenue	12.344	11.853	12.165	14.234	14,996	19.88	13.188	18.346	11,004	2.767
Leave and pension allowances	12,344	11,853	12,165	14,334	14,996		-		-	3,70
Total indirect charges	2.24,656	2.93.801	2,79,133	3.23.957	3,43,399			-		2,30,78
Total working expenses  Net revenue	3,55,278	2,51,334		1,01,128	1,81,820				-	

Under extensions and improvement the following works were executed during the year:—

			Rs.
Additions and alteration to the Inspection Bung to be used as a store and wreck godown	galow at K	hulna	355
Acquisition of land at Panagus for a shed employed on Kaorapukhur khal Gauge observations of the Kumar and Madhumat		ridars	5 400
Improvement of the Bhil route connecting Madaripur	Khulna	with	9,851
Silt clearance, Assasuni khal		***	22,868
Silt clearance of Cut No. 2 in Assasuni khal		* * *	15,580
7	Cotal	0 6 0	49,059

The work of silt clearance in the Assasuni khal and Cut No. 2 was sanctioned by Government as test work, in order to give employment to the famine-stricken people in the Satkhira subdivision of the Khulna district.

The works were carried out by local labour.

The total expenditure for improving the Bhil route to Madaripur amounts to Rs. 22,860. This route now affords every facility of communication for steamers.

The percentage of the net revenue on the capital outlay is shown below for ten years:—

			CAPITAL OUT	TAY (DIRECT)	BRCBIPTS A	ND WORKING	Expenses.	Percentage of
	YEAD.		During the year.	To end of the year.	Gross revenue.	Charges (direct and indirect).	Net revenue.	net revenue to capital outlay to end of year
	1		3	8	4	6	6	7
1887-88	411		Rs. 16,842	Rs. 52,39,116	Rs. 5.79.934	Rs.	Rs.	
1888-89	900	***	49,369	52,88,485	6,75,125	2,24,656 2,93,801	3,55,278	6.7
1889-90	400	400	()281	52,88,204	4,95,548	2,79,185	2,81,324 2,16,410	5.8
1890-91	***	***	5,698	52,93,897	6,25,085	3,23,957	2,01,128	4.1
1891-92	040	***	(-)10,327	52,83,570	5,25,219	3,43,399	1,81,820	3·8 3·4
1892-99	901	***	74,279	53,57,849	4,80,114	2,52,177	2,27,937	4.2
1893-94	000		()408	53,57,446	4,20,541	2,87,129	1,33,412	2.2
1894-95		***	1,076	53,58,522	4,43,008	2,89,267	1,53,736	2.8
1896.96	0 4 4	001	1,27,831	54,86,353	4,55,244	2,91,640	1,63,604	2.9
1896-97	***	***	4,68,976	59,55,328	4,39,938	2,30,759	2,09,179	3.5

The total receipts amounted to Rs. 4,39,938, as compared with Rs. 4,55,244 in the previous year, showing a decrease of Rs. 15,306. The working expenses were reduced from Rs. 2,91,640 to Rs. 2,30,759. The net revenue was Rs. 2,09,179 against Rs. 1,63,604 in 1895-96, but the increase is explained to be entirely due to the way in which the establishment charges have been apportioned between the works under Capital and Maintenance, the whole cost of the establishment having been charged against the work of canalizing the Bhangore khal. The result of the year's working may, on the whole, be considered satisfactory. The number of steamers and flats, which used the canals during the year, was 349 against 312 in the preceding year.

These are independent of the vessels which use the Sundarbans route; the

These are independent of the vessels which use the Sundarbans route; the number which passed through this route during the year was 1,336 against 1,482 in 1895-96, and 1,385 in 1894-95. The flats and steamers pay a nominal

toll of Rs. 5 for each trip.

113. The lengths of channels open for navigation remained the same as LENGTHS OP LANGUAGE.

CANALLE.

43 6 3 4 4 4 4 5 4 6 4 6 4	Miles.	Miles.
(1) Calcutta and New Cut Canal	1 0 0	10
(2) Tolly's Nala, including 20 miles of Kaorapukhur khal		* 37
(3) Eastern Canals { Inner boat route Outer ditto	189 127	
40.00		316
(4) Steamer route		350
(5) Bhil route between Kumar and Madhumati rivers connecting Khulua with Madaripur		24
Total Calcutta and Eastern Canals		737

114. The following statement shows the collections made during the year NAVIGATION. by the Collector and Supervisor of the Canals, and by the Executive Engineer, respectively:—

	Num-	COLLECTIONS BY COLLECTOR AND SUPERVISOR.							GRAND
CARAZO.	ber of bosts and rafts.	Tolls from boats and raits.	Demurrage.	Ferry tolls.	Tolls from steamers and flats.	Rents of buildings, fishery rent and other mis- cellaneous receipts.	Total.	Rents of buildings, lands, and other mis- cellaneous receipts.	TOTAL, GROSS BEVENUE.
1	8	8	4	B	6	7	8	9	10
Calcutte and Eastern Carnin. Tolly's Nale	No. 75,228 58,556	Re. 3,25,058 79,688	Ra. 7,201	Rs. 3,545 1,633	Rn. 6,680	Re. 6,257	Re. 3,48,541 83,284	Ra. 8,530	Re. 4,40,064
Total 1896-97	183,784	4,04,946	8,826	4,967	6,680	6,406	4,31,525	8,230	4,40,064
Total 1895-98	134,173	6,15,123	5,807	4,570	7,410	7,200	4,40,110	15,393	4,65,603

The tolls from boats and rafts, which constitute the chief source of revenue from these canals, amounted, during the year, to Rs. 4,04,946 against Rs. 4,15,123 of the previous year, the decrease being Rs. 10,177.

The Superintending Engineer writes:-

"Notwithstanding this decrease the collections must be considered satisfactory, when the failure of the rice crop in the eastern district is taken into account. On rice alone the loss of tolls amounted to Rs. 40,610, as compared with the previous year. If the rice crop had been better, the gross collection would have exceeded those of many previous years."

The following are the principal articles of traffic on the Circular Canal and Tolly's Nala for 1896-97, the increase or decrease in collections and maundage being shown against each:—

Articles.		+ or - in maunds.	+ or - in collection.	REMARKS.
		2	3	
Rice		-22,72,075	- 40,610	
Jute	•••	- 2,13,634	- 1,119	
Firewood	• • •	+ 2,73,800	+ 5,559	
Spices		- 30,282	- 123	
Empty Boats	***	60000	+ 2,977	
Fish		+ 14,729	+ 1,666	
Salt		- 2,82,630	- 1,931	
Lime		+ 1,29,930	+ 3,677	
Coal	000	+ 11,990	+ 753	
Kerosine Oil		- 34,325	- # 341	

TRAPPIO. 115. The table below classifies the boats which used the canals during the last two years:—

		NUMBER AND CLASS OF BOATS EXCLUSIVE OF BAFFS.								
YBAR.	Canal.	Up to 100 maunds.	Between 100 and 1,000 maunds.	Between 1,000 and 2,500 maunds.	Between 2,500 and 5,000 maunds.	Over 5,000 maunds.	Total.			
1		8	6	8	6	7	0			
1896-96	Onleutta and Eastern Canals. Tolly's Nala	45,960 24,008	29,502 12,756	3,683	168	45	76,854			
	Total 1895-96	67,966	42,258	2,742	165	45	1,13,17			
1806-97	Calcutta and Eastern Canals. Tolly's Nala	46,705	26,894 12,740	3,272 98	231	40	75,146 83,633			
	Total 1896-07	66,700	89,634	8,370	981	40	1,08,97			

There was a decrease of 4,201 in the total number of boats which entered

The number of small boats, or saltis, which entered Tolly's Nala from Kaorapookhar and paid tolls at Russa, increased from 20,854 in 1895-96 to 24,650 in 1896-97. Including these saltis, the total number of boats was 133,625 against 134,030 in the previous year.

The tonnage of boats, as determined by canal measurement, and the estimated weight and value of the cargo, are shown in the comparative statement below:-

Year.	Canal.	Number of boats, including passenger and empty boats, but excluding rafts.	Tonnage of boats by canal measure- ment.	Weight of cargo.	Value of cargo.	Tollage, including demurrage.	Percentage of toll on value of cargo.
1	3	8	4	8	6	1	8
1896-97 {	Calcutta and Eastern Canals. Tolly's Nala	No. 75,142 58,483	Tons. 766,420 269,476	Tons. 643,861	Rs. 4,46,11,025 1,19,60,196	₹ 81,377	
	Total 1896-97	139,625	1,035,896	721,683	5,66,71,221	4,20,151	0.74
1895-96 {	Calcutta and Eastern Canals. Tolly's Nala	76,3 <b>54</b> <b>5</b> 7,676	777,985 258,862	<b>59</b> 0,80 <b>8</b> 176,23 <b>2</b>	4,64,74,817 1,08,24,068	<b>3,4</b> ',01 <i>6</i> 87,0 <b>19</b>	
	Total 1895-95	184,030	1,036,797	767,040	5,72,98,885	4,28,034	0 74

The decrease in the tonnage of boats, and weight and value of cargo, was due to less traffic in rice, jute and salt.

The number of missing tickets in each of the last ten years is shown 116. below:-

MISSING TICKSTS.

YEAR.			No.	YEAR.			No.
1887-88	•••	-0-	677	1892-93	•••		169
1888-89			329	1893-94		***	252
1889-90	•••		238	1894-95			170
1890-91	• • •		212	1895-96			155
1891-92			210	1896_07			86

117. The following statement compares the cost of the Revenue establishment for each of the last five years:-

Particulars.	1892-93.	1893-94.	1894-96.	1895-96.	1896-97.
1	3	8	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
Salary and commission of Supervisor	10,529	9.780	9,946	10,481	8,971
Salary of Canal Inspectors	5,013	4,545	4,882	5,367	5,283
Supervisor's office establishment	6,076	6,879	6,931	6,847	7,191
Canal police	2,059	2,058	2,067	2,046	2,146
Supervisor's steam-launch establishment		V00			891
Inspector's boat establishment	696	691	685	693	731
Dhappa water-boat establishment	166	168	168	167	165
Dafadars	828	747	83H	829	872
Travelling allowances	71	113	42	161	19
Contingencies	2,106	1,877	1,624	1,675	1,684
Toll-collecting establishment	12,391	12,496	12,292	12,710*	13,214
Total cost of establishment	39,935	39,344	39,405	40,966	40,276

Includes salaries of darogas, clerks, cashiers, kootnavises, koyals, toll peons, and dinghi crews.

The decrease in the expenditure is thus explained by the Superintending Engineer:

"The principal saving is under the sub-head 'Salary of Supervisor.' The Supervisor is on furlough, and his locum tenens draws his pay as an Honorary Assistant Engineer with an allowance of Rs. 100 per mensem for doing the revenue collection. Only this latter allowance should have been charged against Revenue Establishment, the balance of Mr. Fox's

salary being charged to the maintenance grant of the canals. Had this been done, there would have been a large saving under the sub-head 'Salary of Supervisor.'

The increase under the other sub-heads is due to the additional allowance sancticned for menists on account of high price of food."

MINCHILLA

MBNTS.

The miscellaneous receipts during the year amounted to Rs. 13,639 against Rs. 21,228 in 1895-96, showing a decrease of Rs. 7,589. This large falling off is due to the small number of wrecks which were removed from the canals during the year.

119. The expenditure under Extensions and Improvements was Rs. 49,059 against Rs. 13,239 in the previous year. The increase is due to silt clearance of the Assasuni khal and to cut No. 2 being carried out as test works to give employment to the villagers in the distressed areas of the Khulna district.

The statement below shows the distribution of the maintenance charges under the several sub-heads, as compared with the previous year:-

CANAL		Loein.	Masonry bridges.	Roads.	Baildings.	Plantations	Dredging.	Channel and bank	Tow.path.	Rustic bridges.	Steam-launches.	Miscellaneous.	Prainage.	
1		2	8	- 4	5	6	7	8	9	10	11	12	13	11
Calcutta Canals Tolly's Nala Sundarbans Stea- mer Route. Eastern Canals	(1805-96 1896-97 (1895-96 1896-97 (1895-96 1896-97 (1895-96 1896-97	Ra. 3,273 8,160	Re. 4,157 3,386 1,524 1,920	Ra. 15,246 15,207 223 218	Ra. 684 2,076 99 214  1,830 2,602	Ra. 473 480 583 679	Ra. 15,854 20,879  2,604 8,563	Ra. 5,923 5,631 627 8,211  28,389 1,600	Rs. 1,139 1,273 903 771 21,534 12,141	Ra. 401 456 307 851 23,782 21,848	Ra. 5,076 4,069	Rs. 11,541 11,781 292 318 3,803 3,462 15,777 10,830	83 85	63,8 67,9 3,89 4,90 3,49 97,44 10,26
Total	{1895-96 1896-97	3,273 3,160	5,681 5,256	15,469 15,425	2,613 4,892	1,056	17,958 23,942	34,839 10,442	23,576 14,185	27,440 22,655	5,076 4,069	31,413 26,886	86	1,63,6

The maintenance charges show a decrease of Rs. 36,821.

On the Sundarbahs steamer route Rs. 3,462 were expended in working the heave-up boat for removing snag, and also in an attempt to blow up the

flat Howrah in the channel creek.

121. The work done by the dredgers and the cost, including that of delivering the mud, are shown below:-

	Quantity dredged.	Cost.	Rate per 1,000 oubic feet.
1	2	3	4
Steam dredger Victoria Fouracres' dredger Marchant's dredger Hydraulic dredger Clinker	O. ft. 61,500 602,400 <b>389</b> ,400 2,043,500	Rs. 1,429 5,482 3,563 13,468	Rs. A. P. 23 3 9 9 1 7 9 2 5 6 9 5

The actual rates of dredging, excluding the cost of delivering the mud, the cost of repairs, and the interest on original cost of dredging plant, were as follows:-

17 13 1 Steam dredger Victoria 8 10 11 | Per 1,000 cubic Fouracres' dredger Marchant's hand dredger 400 0 13 0 feet. Hydraulic dredger Olinker 2 5

The dredger Victoria did practically no work during the year, being under repairs; the Fouracres' dredger worked for 236 days; the Marchant's dredger for 287 days; and the Clinker for 273 days.

122. The state of the plantations for the last two years is shown below: -- PLATFAFTORE

YEAR.		Trees over 12 feet.	Saplings from 4 to 12 feet.	Seedlings below 4 feet.	Total.	
1		2	8	4	5	
189 <b>5-96</b> 1896-97	•••	No. 3,6ö6 3,644	No. 1,146 1,069	No. 054 600	No. 5,356 5,313	

The expenditure during the year was Rs. 1,160, against Rs. 1,056 in 1895-96. There were no receipts.

123. The expenditure on the steamer route, and the receipts from steamers and flats using it, are shown below for each of the last ten years:—

Senamen Bouth.

Y BARA.		10:1	(PENDITURE-	4		
	Recripts.	On capital	On revenue account.	Total.	Net revenue.	REMARKS
1	2	3	4	5	6	7
	Rs.	Ra.	Rs.	Rs.	Rs.	
1887-88	4,445		1,864	1,864	2,581	
1888-89	4,670	*****	5,352	5,352	(-)682	
1889-90	4,640	*****	2,094	2,094	2,546	
1890-91 1891-93	5,425 4,640		2,268 1,920	2,268 1,920	3,157 2,720	
1892-93	4,455	28,964	2,094	81,058	(—)26,103	
1893-94	5,495	627	2,094	2,721	2,774	
1894-95	6,925	754	2, 94	2,848	4,077	
1895-96	7,410		3,803	3,803	3,607	
1896-97	6,680	****	3,462	3,462	8,218	
Total	55,285	30,345	27,045	57,390	()2,105	

There was a decrease of Rs. 730 in the receipts, but the expenditure was reduced by Rs. 311; the net revenue being Rs. 3,218, against Rs. 3,607 in the previous year.

The Superintending Engineer writes:—

"It is evident that the tolls realized on the flats and steamers running through the Sundarbans do not pay for the maintenance of this route, which is simply a succession of large tidal rivers, and which cost nothing to maintain, except at one place called the Angeria Creek connecting the Dansidhi river near Jhalukati with the Kochen river at Cowkhali. The tides meet in the centre of this creek, and for a distance of two to three miles the channel becomes shallow and narrow, so that it is very difficult for the large Assam steamers and flats to pass, and in fact they can only do so at high water. An alternative route cannot be found, so it is necessary every fourth year to incur a large expenditure in deepening and widening the creek.

The question of improving this portion of the steamer route has again been brought up by the steamer companies, and a report will shortly be submitted on it for the orders of

Government."

#### ORISSA COAST CANAL.

124. The capital and revenue accounts of this canal are given below:—
1—CAPITAL ACCOUNT.

C'APITAL ACCOUNT.

HEADS (	ACCOUNT.			Outlay during 1896-97.	Outlay to end of 1896-97.
\$ 20 KM	1			2	3
Direct charges  ***Less—Receipts on capital ac	ecount	000	000	Rs. 20,278	Re. 43 95,231 8,293
1	Cotal direct of	hargea	* 0,0	20,273	48,91,938
Indirect charges	0 0 °	***	•••	409	1,06,352

Under the capital account there was an expenditure of Rs. 12,697 during the year on the works detailed below:—

Remodelling escapes in Ranges IVA at Opening a new ascape in 106th mile	nd V	remodelling	escape in	Ra 2,797
108th mile		•••	•	4,086
New bungalow at Erum .		***		1,288
Dock and tank at Panchpali	• • •		800	149
Dredging uncut portions in Range V				4,427
0.0		Total	***	12,697

The remodelling of escapes in Ranges IVA and V were completed at a total cost of Rs. 45,752. The opening of a new escape in the 106th mile and the closing of an old escape in the 108th mile were also completed. Dredging was continued in Range V, and 451,000 c. ft. of earth were removed at a cost of Rs. 4,427. The construction of the new bungalow at Erum was finished during the year.

2.—RHVENUE ACCOUNT—(Actual).

ACCOUNT.

	Expan	OH URS-	1	RECEIPTS-			
PARTICULARS.	During 1895-96.	During 1896-67.	Particulars.	During 1890-96.	During 1896-97.		
1	2	8	4	5			
Direct charges.  I.—Maintenance and repairs  II.—Revenue management	Rs. 69,060 6,937	Rs. 77,061	Water-rates Navigation Miscellaneous	Rs. 85,773 2,580	83,856 2,408		
Total direct charges	66,997 3,122	84,067 3,716	Total	88,353	86,259		
Total working expenses Net revenue	70,119 18,209	87,783 (—) 1,642	Less—Refunds of revenue	25	118		
Total	88,328	86,141	Net total receipts	88,328	86,141		

Norn.—The details by heads of expenditure for the year 1896-97 and seven preceding years will be found in the table given in paragraph 125 following.

The financial result of the year's operations was not very satisfactory. There was a decrease of Rs. 2,187 in the receipts, and the working expenses exceeded those of the previous year by Rs. 17,664.

The falling off in the receipts is attributed to the closure of the canal. The net revenue was Rs. (—)1,642. The large increase in the maintenance charges was entirely due to the heavy repairs which had to be done to the Rhaitebur look.

Bhaitghur look.

125. The receipts on the Revenue account, and working expenses of the FINANCIAL RESULTS. canal for the last ten years, are shown in the following statement :-

	1897-88.	1888-89,	1889-90,	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	5	. 6	2	8	9	10	11
LECEIPTS.	Ba.	Rs.	Re.	Rs.	Rs.	Rs.	Re.	Rs.	Re.	Rs.
rates	***		61	964						
tion	<b>62,82</b> 8	65,047	63,724	64,220	60,051	55,832	95,283	64,094	. 85,773	83,866
aneous	1,026	1,381	1,563	1,410	2,073	9,149	2,477	1,987	2,580	3,408
Total	53,854	66,428	65,348	65,630	62,123	64,981	97,710	66,081	88,353	86,259
Refunds of 20-	17	254	16	44	66	47	1,148	9r	26	118
otal receipts	58,837	66,174	65,888	66,58 <b>G</b>	62,067	64;984	96,567	65;960	88,328	36,141
KING EX- PKNSES. BOT CHARGES. rks, Maintenance of Repairs.										3 e ×
(extensions and rements).	900			• • •			***	196	645	40 × 400
9.00	58,277	42.606	50,528	42,812	48,598	45,490	58:234	52,548	40,064	63,525
hment, includ- direction and ots	14,289	11,377	926	16,452	17,100	17.266	21,589	19,706	16,361	19,636
d plant	8,743	14,462	10,513	9,784	3,464	6,663	7,317	3,999	4,000	4,000
Total-	76,309	68,445	61,967	67,659	69,162	69,419	87,103	76,448	. 60,060	77,061
ment.			,				0			
on entablish-	4,559	6,123	6,044	6,208	6,134	6,855	7,029	6,598	6,937	7,006
ect charges	80,868	74,568	68,011	73,760	75,296	76,275	94,182	83,346	66,997	84,067
CHARGES.										
d abatement		£		. ***	***	•••	***	•••	***	00-010
pension al-	2,639	2,450	975	3,032	3,253	3,877	4,001	8,726	3,122	8,716
ot charges	2,639	2,450	975	3,032	3,253	3,377	4,001	8,725	8,122	3,716
ing expenses	88,507	77,018	68,986	76,798	78,549	79,652	98,188	87,071	70,119	87,783
	-	(+-)10,844.			(-)16,492	—)14,718		-)21,181	18,209	(-) 1,642

Regarding the traffic on the canal the Superintending Engineer writes :-

"There was a falling off under all heads except in the number of boats. The gross traffic of the year was 205,695, against 206,797 tons of the previous year. The number of boats increased from 18,774 in 1895-96 to 20,016 during the year under review, but the tollage decreased from Rs. 85,773 in 1895-96 to Rs. 83,856 in 1896-97. It is difficult to explain the increase in the number of boats and the decrease of tollage; but it was probably owing to the fact that, on account of the great demand for rice in Calcutta, boats came up in numbers in the hope of getting a cergo, but had in many cases to return empty. Figure, taken at Jamkenda, show that, during the year, seventy-three boats went out to Panchpali for

rice, but they had to return empty, as they could not get a cargo.

The receipts from the Calcutta Steam Navigation Company amounted to Rs. 11,337, against Rs. 13,894 in 1895-96. Out of the former amount a sum of Rs. 1,234 was remitted, being the difference between local and through rate of tolls in the Orissa Coast Carallel between Carallel and Nalland on such days as they used the small school of the carallel and the carallel Canal, between Gewankhali and Nalkul, on such days as they used the canal when the Kalinagar and Bhaitghur looks were closed during the year. The India General Steam Navigation Company paid Rs. 8,298, and Messrs. McNeil & Co., Rs. 4,693, against Rs 10,290 and Rs. 3,591 of the previous year.

There was a great decrease in the number of passengers carried on the canal, vis., 38,548, against 59,603 of the previous year, which is attributable partly to the closure of the Bhaitghur lock, and partly to a more strict supervision by Government of the number of

passengers carried in each steamer.

The steamers stopped running at night altogether for some time, as the number of passengers the rules allow for night trips is much less than for day trips.

On the Balliaghye drain the tolls realized during the year were Rs. 6,053, as compared

with Rs 6,605 of the year before."

The amount of tolls, assessed from Kansbans and Surpai toll stations, shows a decided improvement. It has been suggested that it would be desirable to abolish the Kansbans toll station and open a new station at Chowmuk, as a check on the Surpai station: this matter is receiving the Superintending Engineer's attention. There was a heavy export trade in rice, and also a large increase in the export of timber.

126. The following table compares the traffic of the year with that of

1895.96:-

ORIBBA CO		Number of boats.	Tonnage of boats.	Value of cargo, including rafts.	Tolls.	
1	1		3	4	5	
895-96 896-97		No. 18,774 20,016	Tons. 206,797 205,695	Re. 40,02,498 43,96,918	Ra. 85,778 83,856	

\*Includes passenger and empty boots.

BATTFALL.

The length of the canal from Bhaitghur to Charbattia remained

the same as last year, i.e., 102 miles, including 41 miles of river-crossing.

The Bhaitghur lock was closed for repairs from the 8th November 1896 to 10th February 1897. The Balliaghye branch drain was also closed to traffic for silt clearance from the 23rd February, and the work was still in progress at the end of March.

The rainfall registered at Balasore was 72.10 inches, compared with The average of the previous five years was 67.24 64.84 inches in 1895.96.

inches. The higest flood levels, recorded on the various rivers crossed by the Orissa Coast Canal, are recorded in the following table:-

		1888-06.		1896-07.		Highest on	REMARKS	
NAME OF RIVER.	Lecality.	Date.	Beading.	Date.	Breding.	Date.	Reading.	
1	3	8			6	7	0	
Panchpara	Bhograi Funchpara	20th September 1808. 22nd August 1808 20th September 1808	113'40 112'60 113'00	90th July 1806 25th	110°80 118°10 118°10	June 1865 Not known 22nd Roptember	118'00	Without date on of Mr. Vertanna
Kutai		2rd October 1886	110.80	27th	7114100	Not known	11606	Without date of

There were high floods during the year in the Subarnarekha and Mutai rivers, which caused a certain amount of damage. The highest monsoon levels in the various ranges were as follows:-

III ... = 117.00 on 25th July 1896.

IVA ... = 116.40 on 24th

Value ... = 114.50 on 24th

= 113.30 on 27th Range III \*\*\*  $\dots = 113.30 \text{ on } 27\text{th}$ 

130. The miscelaneous receipts during the last five years are shown MISCELLA-NEOUS

BEORIPES.

1891-92. 1892-93. 1893-94. 1894-95. 1895-96. 1896-97. Rs. Re. Rs. Rs. Rs. 9,149 2,477 1,937 2,580 2,403

The following table gives the results of the working of dredgers DREDGERG AND SILT CLE-BANGE. 131. for the last two years :-

		edged.		Cost or-	-	RATE	PER 1,00(	) c. fr.
YFAR.	Name of dredger.	Quantity dredged	Quantity d		Total.	Lifting.	Removing.	Total.
1	2	3	4	5	6	7	8	9
1895-96	Marchant No. 1. Comus with 3 mud punts.	C. ft. 395,570 269,500	Rs. 1,455	Rs. 1,763 1,170	Ra. 3,218 2,148	Rs. A. P. 3 10 9 3 9 11	Rs. A. P. 4 7 4 4 5 5	8 2 1
	Total	665,070	24,33	2,933	5,366	3 10 5	4 6 7	8 1 0
1896-97	Marchant No. 1 with mud punts. Comus Bruce No. 1 with mud punts.	372,500 277,960	1,736	1,627 1,305	8,363 2,520	4:66	4.36	9.02
	Total	650,460	2,951	2,932	5,883	4.53	4 51	9.04

Dredger Marchant No. 1 worked in Range V, and Comus in Ranges III, IV, Dandens.

About 400,000 c.ft. of silt were cleared from the canal side of the Bhait- SHIT CLEARghur lock at a cost of Rs. 2,329.

The state of the plantations for the last two years is shown in the Plantations. following statement:-

YEAR.		Trees upwards of 12 feet in height.	Saplings from 4 to 12 feet in height.	Seedlings below 12 feet.	Total
1		2	8	4	5
1895-96 1896- <b>97</b>	•••	2,564 1,649	5,437 6,254	6,644 6,231	14,645 14,134

The decrease is due to the fact that many seedlings died on account of the excessive heat. There were neither receipts nor expenditure under this head during the year.

### SARAN CANALS.

CAPITAL ACCOUNT 133. The Capital account of these canals has been closed. The Revenue account is given below:—

#### REVENUE ACCOUNT-(Actuals).

	EXPENI	DITURE-		RECE	IPTS.
Particulars.	During 1895-96.	During 1896-97.	Particulars.	During 1855-96.	During 1896-97
1	2	3	4	5	6
Direct charges.	Rs.	Rs.		Rs.	Ķs.
Maintenance and re-	1,293	11,628*	Water-rates Navigation Miscellaneous	1,139  411	1,251
INDIRECT CHARGES	61	306	Total	1,550	1,304
Total working expenses	1,554	11,934	Less—Refunds of	75	370
Net revenue	1,475	934	Net total receipts	1,475	934

Note.—The details by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 134 following.

• Includes Rs. 4,964, being the normal cost of clearing silt by famine labour in the Gandaki and Gangri feeders.

134. The receipts on Revenue account and working expenses of the Saran Canals for the last ten years are shown in the following statement:—

		1687-88.	1898-89.	1880-00.	1890-91.	1801-92	1892-93,	1893-94.	1804-95.	1806-96.	100-07
1	1	2	8	4	5	6	7	6	9	10	11
RECEIPTS.		Rs. 21,670	Ra. 20,415	Rs. 22,990	R4. 36,623	Rs_ 15,783	Rs. 1,403	Ra. 6,764	Ro. 938	Re. 1,139 .	Rs.
Total Refunds of revenue	-	20,065	20,814	23,113	26,983	15,831	1,691	6,814 £30	1,893 3,152	1,559	1.
Net total receipts	-	20,665	20,814	23,115	36,983	15,831	1,526	6,584	() 1,800	1,475	
stablishment	777	18,601 9,119 400	23,976 10,248 673	24,000 12,122 901	26,454 10,500 290	9,921 3,710 (-) 193	P,617 3,772 218	4,111 1,783 112	1,037 647 (-) 5	856 437	
	-	28,120	34,997	38,313	37,403	12,538	13,502	5,962	1,479	1,300	-
land revenue cave and pension allowances Total indirect charges	0(	1,277 1,277 20,397	1,435 1,435 86,333	1,780 1,730 40,052	1,478 1,478 34,881	510 510 13,957	828 828 14,030	243 243 6,205	68 G3 1,563 () 8,340	61 61 1,854	()
Not revenue		(-) 8,732	(-) 15,618	(-) 16,939	(-) 1,608	8,774	(-) 12,506	30	(-) 6,0		-

There was no change in the lengths of the canals, which are given CANALS OPEN AND AREAS COMMANDED CANALS OPEN AND BREGGATin the following table:-

	_			1	1896-96,							180	06-97.		49	
Name of Canal.	Navigable canals.	Canals for irrigation only.	Distributaries.	Area protected from flood.	Area under command,	Area provided with dis-	Area irrigated.	Percentage of area irrigated to area provided with dis- tributaries.	Navigable canals.	Canals for irrigation only.	Distributaries,	Area protected from flood.	Area under command.	Area provided with distri-	Area irrigated.	Percentage of area irrigated to area provided with dis-
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Saran Canale.  Main canal or head out  Branch Canale.  IDaha feeder		Miles, 6:34			Acres.		Acres,			Miles.			Acres,		Acres.	17
II.—Gandaki II.—Dhanai V.—Gangri In addition to the		3:34 1:57 1:00 6:57	] "	ves	64,000		Nil			3:84 1:57 1:00 6:57	***	***	64,000	***	4,080	90.0
aintained:— I.—Thakraha Sota I.—Roopan Chap Sota		1'50 27'00	110	***		***	***	***	***	1°50 27°00	***	***		***	p84	110

The canals were opened for the rabi season on the basis of individual assessment, after it was seen that no one would come forward to pay the lump sum required for the opening of a sluice.

The only village channels, which exist on these canals, are those constructed by the proprietors of the Moniarah Concern in the year 1889; besides these, several cuts have been made from time to time.

Most of the cuts are in very bad repair, as they have not been in use for

There were several small earthen dams made along the Daha and on the Gangri, but, as water could not be passed down the Gangri, they were not of

136. A new distributary from the Gangri was commenced in February DISTRIBUTARY. and was being constructed by famine labour. The proposed length is six miles, and it has been designed to irrigate 2,800 acres.

137. Three bunds were made during the year for the supply of water to the different canale; besides these, several were made at the mouth of the Roopan Chap Sota at Neenyapatti to increase the supply. At Sasamoosa at the end of the Daha feeder a bund was made to prevent the water from going down the Daha, as petitions had been sent in saying that there were springs in the Daha below that place, and the raiyats did not require water. This bund, however, was cut at night several times.

Several temporary bunds were also made along the Gangri and Dhanai, some without leave, including one at Tenthi by the Manager of the Arrowah

The average rainfall on the area under command is shown by seasons in the table below, for the last five years :-

RAINFALL.

	1	.892-93.	1893-94.	1894-95.	1895-96.	1896-97.
Kharif season (August, S	en-	Inches.	Inches.	Inches.	Inches.	Inches.
tember and October) Rabi season (November		27.70	24.96	28 55	22.02	10.76
Year	***	2·29 49·19	1·08 49·95	2·62 51·28	0·50 43·42	0·99 28·94

The rainfall was very deficient; there was very little rain in September, and none in October, the result being an almost total failure of the rice crop.

139. The discharge of the river Gandak taken on the 17th May 1897

was 15,900 cubic feet per second at Siswa, with a gauge reading of 232 33.

140. There was a large demand for water in September and October owing to the total failure of the rains during those months, but, as no one came forward to pay the sum required for opening any of the sluices, they were kept closed. If they had been opened, it is doubtful whether a sufficient quantity of

water could have been passed down to do any good, owing to the conditions which exist at the head of the feeders,

The Executive Engineer remarks:

"A large area of rice cannot be irrigated from the Saran canals under existing conditions, as, in the first place, only a comparatively small quantity of water can be passed down in September and October, when it is most urgently wanted; and secondly, if a supply could be given, there are no distributaries or village channels, except those constructed by the Moniarah Factory from the Daha. In the other three channels the only way water is made to pass into the rice chours, is by bunding across the channels and forcing the water through the natural channels, which are the drainage channels of the chours. Each chour has thus to wait its turn of supply, and when those above have been satisfied, they object to the water being passed down, as the drainage of their chours is impeded, and their low lands flooded. their low lands flooded.

"The Seran canals are not of much use for indigo irrigation or manufacture. It is only in very bad years like the one under review, when there is a failure of the rains, that they are needed. They are very seldom of use for manufacture, as not only is there a prejudice against the use of Gandak water, but also it is very seldom that the rains set in so late that the tanks become dry, or so low that irrigation by means of large pumps at very great expense has to be resorted to. Water for rabi irrigation can only be supplied to lands in the immediate vicinity of the banks of the canals, as the lifts are in many places very great. Far more would have been irrigated this year if water could have been sent down the Gangri and the Gandaki."

and the Gandaki."

The total area irrigated was 4,080 acres, of which 3,197 acres were rabinand 883 were indigo. The Barhoga Factory was the only one in which irrigation on any large scale was effected; 632 acres were irrigated by means of 6 large centrifugal pumps. The manager commenced pumping in November, and continued till the rain in December assured him of sufficient moisture.

The following table gives the areas of the different crops irrigated from

the Saran Canals during the year :--

1	NAMES OF	P CROPS.		Acres.
	1			2
Indigo	•••		•••	883
Poppy Rabi	000		•••	255 2,915
Other crops	0.00	0.00	• • •	27
		Total	•••	4,080

The areas irrigated since 1881-82 are given below:-

	Ye	ar.		Area.	
	2				
				Acres.	
1881-82	***			666	
1882-83	444		***	1,747	
1888-84		0 0 0	***	21,122	
1884-85	901	0.00		7,228	
1885-86	***	***		4,560	
1886-87	100			2,146	
1887-88	9.09		***	4,218	
1888-89	***		***	7,218	
1889-90	***	0.00	***	4,216	
1890-91	000		***	2,226	
1891-92	***	***	***	5,965	
1892-98	***	000		3,560	
1893-94	***			1,568	
1894-95	440	***	***	Ni Ni	
1895-96	•••	•••	***		
1896-97	***	•••		4,080	

There were no floods of any importance during the year. highest reading of the gauge at Siswa was 238.00, which occurred on the 10th August 1896.

142. The assessments, remissions, and collections are shown below:

PLOOD

	YEAR.		Assessment.	Remitted or written off.	Collections to end of March 1897.	Balance to be recovered to end of March 1897.
	1		2	3	4	5
1896-97	***	•••	Rs. 6,416	Rs. 120	Rs. 30	Rs. 6,266

Owing to the failure of supply in the Gangri and Gandaki during February and March for poppy irrigation, the Executive Engineer remitted eight annas of the rate. A sum of Rs. 120 was remitted on this account; all the khatianies were submitted to the Collector, by whom all the collections are to be made. Up to the end of March a sum of Rs. 30 was collected.

143. The expenditure on maintenance during the past five years is shown MAINTENANCE

		Miles.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97
1		2	3	4	5	6	7
Repairs to head cut and river p	***	6.34	Rs. 1,341	Rs. 1,766	Rs. 432	Rs. 459	Rs. 392
Repairs to Daha feeder to Gandaki feeder to Dhanai feeder to Gangri feeder	•••	3·34 1·57 1·00 6·57	544 1,550 411 565	499 550 <b>2</b> 42 424	166 150 119 170	397	2,568
" to dams and channels		+01	5,106	631	***	•••	1,493
Total		***	9,517	4,112	1,037	856	4,458
Establishment Tools and plant (actual) Refund of revenue	•••	***	3,772 213	1,738 112 530	447 (—)5 3,182	437	2,185 26 370
GRAND TOTAL		•••	13,502	6,492	4,661	1,368	7,084

The expenditure this year is very much in excess, as the canals were actually closed during the two previous years. The principal expenditure has been in clearing silt at the heads of the feeders, and keeping the mouth of the Roopanchap Sota open. Owing to the small quantity of water in the Sota, when orders arrived to open the canals, the dams across the Takraha Sota and Roopanchap Sota, which, in former years, cost a considerable sum of money, were constructed this year for Rs. 159 and Rs. 1,344.

144. All silt is cleared by hand. As dams had been made across the DERDOING mouths of the feeders to keep silt out, there was not much silt in them. The largest silt clearance was made at Siswa between the dam across the feeder and the Sota, and in cutting a channel about three-fourth mile long at the mouth of the Roopanchap Sota near Nemyapatti to increase the supply.

The total amount of silt cleared was 470,446 cubic feet, costing Rs. 1,258.

Besides this, silt clearance was undertaken in the Gandak and Gangri by famine labour, as below:—

			Cubic feet.	Cost.	
	1	· ·	2	3	
			C. ft.	Rs.	
Gangri Gandaki Establishm Tools and	•••	 	905,320 795,405	2,955 3,609 264 1,113	
	Total		1,760,725	7,945	

<sup>·</sup> Contingent charged only

PLANTATIONS. 145. The state of the plantations for the last two years is shown below:—

	YEAR.		Trees over 12 feet.	Saplings between 4 and 12 feet.	Seed- lings under 4 feet.	Total.	
	1		2	3	4		
1895-96 1896 97	000	***	No. 9,303 9,989	No. 4,762 5,540	No. 5,723 7,458	No. 19,788 22,987	

The expenditure on plantations was Rs. 77, against Rs. 35 in the preceding year.

146. The miscellaneous receipts were Rs. 1,251, against Rs. 411 in the ous security previous year.

### NADIA RIVERS.

Jalangi, Mathabhanga, and part of the Hooghly, and their approximate lengths, which remained the same as last year, are as follows:—

Bhagirathi	***	***	145 miles to Nadia.
Bhairab-Jalangi		000	141 ditto.
Mathabhanga			138 miles to junction of the Hooghly river.
Hooghly	400	***	31 miles from Nadia to Chakdaha.
			work.
T	otal	000	455 miles

148. No Capital account of expenditure is kept. The Revenue account for the last two years is given below:—

REVENUE ACCOUNT.

	Expeni	DITURE—		Rece	IPTS-	
Particulars.	During 1895-96.	During 1896-97.	PARTICULARS.	During 1895-96.	During 1896-97.	
1	2	3	4	5		
DIBROT CHARGES.	Rs.	rts.		Rs.	Rs.	
J.—Maintenance and repairs. II.—Revenue manage-	1,13,818 23,582	97,916 24,373	Navigation	1,19,981	93,392	
ment. Total direct charges	1,37,400	1,22,289	Total	1,20,105	93,474	
INDIRECT CHARGES	8,881	8,529	Less—Refunds of	59	***	
Total working expenses Net revenue	1,46,281 (—)26,235	1,30,818 (—)37,344	revenue.			
Total	1,20,046	93,474	Net total receipts	1,20,046	93,474	

Norm.—The dotais by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 149 following.

149. The receipts on revenue account and working expenses, for the last ten years, are shown in the following table:—

FIVAWOIAL

	1887-88,	1888-80,	1889-90.	1890-91.	1891-99.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97,
1	3	3	4	8	6	7	8	9	10	11
RECEIPTS.	Ra.	Ra.	Re.	Ra.	Re.	Rs.	Re.	Re.	Ra.	Re.
Navigation Miscellaneous	73.00	1,91,791	1,95,983 60	2,00,50s 136	1,92,718 247	1,65,380 158	1,71,166 86	1,41,419 279	1,19,981	93,39
Lee-Refunds of rovenue		1,91,888	1,86,043 220	2,00,644 162	1,92,965 228	1,65,539 18	1,71,252	1,41,698	1,20,105	93,474
Total receipts	1,98,675	1,91,888	1,85,823	2,00,492	1,92,737	1,65,520	1,71,251	1,41,608	1,20,046	93,476
WORKING EXPERSED.  Direct Charges.										
Maintenance and repairs Retablishment Tools and plant	49,201 41,925 3,593 (-) 1,697	88,933 43,395 2,380 (—) 14	47,843 38,537 2,250 (—) 1,036	52,482 45,410 2,476 3,169	69,704 45,839 1,330 (-)3,015	88,763 81,581 1,666 1,066	77,364 58,782 1,861 478	68,588 60,660 1,890 1,238	69,991 63,436 1,150 2,833	60,878 60,125 1,646 (—)1,155
Total direct charges	92,022	1,34,694	87,594	1,03,637	1.06,857	1,23,054	1,33,435	1,32,385	1,37,400	1,23,289
Indirect Charges,										
Leave and pension allowance	5,870	6,075	5,395	6,357	6,417	7,201	. 8,222	8,494	8,881	8,829
Total indirect charges	5,870	6,075	5,395	6,337	6,417	7,201	8,222	8,194	8,881	8,539
Total working expenses	97,892	1,40,709	92,989	1,09,894	1,13,274	1,30,275	1,46,657	1,40,979	1,46,291	1,80,618
Net revenue	1,00,783	51,119	92,834	90,568	79,468	35,245	24,594	819	(-)26.235	(-)37,344

The financial results are again far from satisfactory.

The Superintending Engineer writes-

"The net revenue derived from the Nadia rivers has again become a minus quantity, via.,

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"The toll collections, during the past two years, have fallen from Rs. 1,20,105 to

The toll collections, during the past two years, have fallen from Rs. 1,20,105 to

The toll collections, during the exceptionally dry state of the rivers as explained in

Rs. 93,474, and this is mainly due to the exceptionally dry state of the rivers as explained in previous paragraphs. Statement A appended to this report gives the collections at the various toll stations and also the annual net revenue derived from these rivers since 1868-64

A reference to this statement shows that the loss of revenue is not confined to one toll a reference to this statement shows that the loss of revenue is not confined to one toll station, but that it is general, and is entirely due to all these rivers being impossible of navisation, but that it is general, and is entirely due to all these rivers being impossible of navisation, but that it is general, and is entirely due to all these rivers and also to unfavourable gation at the same time due to low floods in the Ganges and also to unfavourable gation at the same successful references. Another cause of the decrease in toll collections is the competition of the entrances. Another cause of the decrease in toll collections is the competition of the entrances. Indian Railway, which gives more favourable rates for traffic during the flood months when the rivers can compete for the Ganges traffic, and that the railway has been successful when the rivers can compete for the Ganges traffic, and that the railway has been successful monthly receipts in the flood months from 1863 to 1869 were Rs. 24,285, while for the years 1883 to 1889 the receipts for the same months only average Rs. 14,307. 1883 to 1889 the receipts for the same months only average Rs. 14,307.

Writing on this subject last year I ventured to hope that the history of the Bhagirathi

Writing on this subject last year I ventured to nope that the instory of the Bhagirathi would repeat itself, and that the present period of depression would soon be followed by a succession of years of increased revenue and diminished expenditure. A marked decrease in the cost of maintenance has been shown during the year under review, but there never in the cost of maintenance has been shown during the year under review, but there never will be an increase of toll collections, unless the relation of the Ganges to the heads of the Wadia rivers becomes such that one or other of the rivers can be kept open at moderate cost

The following extracts on the working of these rivers taken from the Public Works Proceedings, dated 28th July 1870, are now reproduced as being of interest at the present time, and it may as well be stated that the principles therein enunciated are still adhered to.

'It has long been recognized that the Nadia rivers cannot be made good navigable channels in the dry season, and it is not to be expected that more than one of them should be channels in the dry season. It is upprocessary to enter upon and discuss the result of

open during the whole season. It is unnecessary to enter upon and discuss the grounds of these opinions, which are the result of many years' experience and discussion. It will suffice to say that endeavours are directed to keep one of the rivers open all the year round, and the others open for as long a time as may be easily practicable. The degree to which the rivers are kept open depends upon several causes which are beyond control, such as the season up-country and in Bengal, the actual and relative times and quantities in which rain falls there and here, and so on.

These circumstances affect the conditions of the floods and currents of the Ganges, the Nadia rivers and their tributaries, so much so that in some years the rivers are entirely The degree to which these rivers can be kept open is thus dependent on the season, and the utmost that can be said with certainty is that one of the rivers may have a minimum depth of water in the dry season of 3 feet or less, but that none of them can be expected to be in good navigable condition all the year round for large laden boats or even for the

majority of laden boats which trade on these rivers.

'In regard to the future working of these rivers it should be understood that it is primarily desired to keep the Bhagirathi open as the most important of the three rivers, and that its importance is considered to be so great that, when it may be impossible to keep it open, attention should be given to prevent its deteriorating and to facilitate its future re-opening.

The most favourable of the two other rivers, the Jalangi and Mathabhanga, should also be kept open as far as possible, and should the Bhagirathi be bad, or closed, special efforts must be made to keep one or other open. What really should be done can only be settled each year after examination of the rivers at the close of the floods."

RATERALI

150. No rainfall register is kept up for these rivers.

The gauge readings at Gheria and Berhampore for the last ten years 151. are given below :-

W				Berhampore.	Gheria.
Year.					31.50
1887	a 4 P	•••		30' 2	32.35
1888		***	***	Orto III	34.00
1889	400	0 0 0	000	30' 41 30' 111	84.70
1890		0 • •			29.30
1891	***		100	40	81.55
1892			0.00	29' 11'	30.75
1893	***		4 4 4	27′ 114″	32.75
1894	***	904	***	30′ 81°	28.80
1895	4 + 0	000	100	26' 11"	28.50
1896		± ⊕ €		25.33	20

The highest reading of the Berhampore gauge was 25:33, on the 27th August 1896. The flood was the lowest recorded during the last 11 years.

The highest flood levels of 1896-97 are compared below with the highest levels in the previous year, and with the highest levels on record. The readings given are the heights above mean sea level:—

River. Locality.		Locality.	1895-96	3.	1896-97		Highest known.		
	Date.	Reading.	Date.	Reading.	Date	Reading			
1		2	8	6	5	6	7	8	
Bhagirathi Jalangi Mathabhanga	001	Berhampore Sarugañj Hanskhali	19th Aug. 1895 26th ,, ,, 23rd ,, ,,	26·12 24·25 19·66	27th Aug. 1896 26th ., 27th ,,	25·33 23·5 18·54	14th Aug. 1890 28th , , , , , , ,	64·71 34·88 39·93	

152. The several classes of boats which plied on the rivers and the tolls collected from them are tabulated below:—

NAVIGATION.

	1	NUMBER	AND CI	ABS OF	BOATS.		Oc	LLECTI	TE SKO	TOLL COL	LECTO RE	
Name of River.	Up to 194 maunds.	Between 100 and 1,000 maunds.	Between 1,000 and 2,500 mannds.	Between 2,500 and 5,000.	Over 5,000 mannds.	Total	Tolls from boats.	Tolk from rafts.	Tolls from steamers and flats.	Total tolls.	Miscellaneous re-	Total collections.
1	3	3	4	5	6	7	8	fa -	10	11	12	13
Bhagirathl (Jangipur toll station). Bhagirathi and Bhyrub-	No. 3,967	No. 1,749	No. 431	No. 118	No. 14	No. 6,299 24,127	Ra. 15,976 46,410	Ra. 444	Ra. 49609 5,423	Ra. 20,821	Ra.	Ra.
Jalanzi (Sarupgan) tell station). Marhabhanga and Ichamati (Hanskhah tell station).	4,420	5,751	325	18	000	10,533	22,528	8	9	\$0,018 22,545	82	98,474
Total 1806-97	20,247	19,142	1,267	218	25	40,940	82,914	638	9,840	93,302	82	93,474
Total 1895-96	22,319	21,829	2,246	194	8	46,598	1,00,482	115	19,416	1,19,981	194	1,20,108

153. The following is a statement of the number of boats, their tonnage, the weight and value of their eargo, and the toll collection:—

Name of River.		Number of boats, steamers and flats (exclu- sive of rafts).	Tonpage of boats.	Weight of cargo.	Value of cargo.	Toll* collection.	Percentage of toll on value of cargo.
1		2	3	4	5	6	7
Ditto and Bhyrub Jalangi .		No. 6,618 <b>24,84</b> 0 10,526	Tons. 86,781 240,214 107,726	Tons. 42,598 84.341 38,511	Re. 28,45,206 1,27,63,201 36,67,035	Rs. 20,386 49.832 22,637	0·71 0·39 0·61
Total, 1896-97	100	41,484	484,720	169,450	1,92,75,442	92,754	0:48
Total, 1895-96 .		47,800	591,718	219,967	2,49,79,251	1.19.865	0.48

<sup>\*</sup> Tolls from boats, steamers and flats (exclusive of rafts).

### The Superintending Engineer remarks:-

"The foregoing statement shows a falling off under all heads, more especially at Sarupganj and Jangipur, where the weight of cargo registered during the year was 88,341 tons and 42,598 tons, respectively, compared with 112,821 tons and 68,333 tons in the previous year. This vast decrease is entirely due to the deterioration of the Jalangi and Bhagirathi rivers in December last, thus diverting the through traffic from the Northern Bengal districts and Bihar to Goalundo, whence it was transhipped and railed to Calcutta."

STRAMER AREVICE.

154. No transport service is maintained by Government on these rivers.

The steamer service kept by the several companies is shown in the statement below:—

NATURE	TERMINAL	STATIONS-	Outward	Period.
OF SERVICE.	From-	To-	inward.	
1	2	8	4	5
	Calcutta L	Steam Navigation	m Company.	
Weekly	Calcutta	Jangipur	Both	From 7th July to 27th October 1896.
Twice a week	Kalna	Katwa and Jeaganj.	Do	From 29th June to end of November 1896.
Ditto	Azimganj	Dhulian	Do	From 8th July to 22nd October 1896.
Twice daily	Berhampore	Azimganj	Do	From 4th July to 23rd October 1896.
Ditto	Lalbagh	Ditto	Do	Throughout the year.
	East 1	ndian Railway	Company.	
Twice a week	Azimganj	Dhulian	Both	From 6th July to 29th September 1896.
Daily	Lalbagh	Azimganj	Do	From 1st January to 30th June 1896.

REVENUE -

155. The cost of the revenue establishment for the last five years is shown below:—

	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	
1	2	3	4	5	6	
	Rs.	Ra.	Ra.	Ra.	Rs.	
Salary and commission of Col-	12,391	12,644	14,807	14,010	14,338	
lectors. Accounts and office establish-	8,879	8,901	8,494	8,407	8,820	
ment. Fravelling allowance Contingencies	601	525 947	766 395	756 409	73 422	
Total	22,282	23,017	24,462	23,582	24,378	

There was an increase of Rs. 791 during the year, due mainly to the payment of exchange compensation allowance to the Toll Collector.

156. The charges for maintenance and repairs (exclusive of establishment MAINTENANCE and plant) for the charges for maintenance and repairs (exclusive of establishment MAINTENANCE AND REPAIRS and tools and plant) for the last three years, are detailed below: -

PARTICULARS.	1894-95.	1895-96.	1896-97
1	2	3	4
Training works in river Bhagirathi  ,, Bhyrub ,, Jalangi ,, Mathabhanga Sounding Nadia rivers Maintaining and working divisional boats Petty and other charges	Rs. 41,642 3,989 7,034 2,717 6,535 2,493 4,178	Rs. 45,694 6,107 6,932 844 5,731 2,297 2,386	Rs. 36,602 5,540 5,549 1,739 6,059 5,032 352
Total	68,588	69,991	60,873

The total expenditure for maintenance of the Nadia rivers, inclusive of charges for establishment and tools and plant, but exclusive of indirect charges, was Rs. 1,22,289, as compared with Rs. 1,37,459 of the previous year, thus showing a decrease of Rs. 15,170, which was due to every possible endeavour having been made during the year to keep expenditure down to a minimum. A further reduction in the cost of training works would, in all probability, have been attained but for the sudden fall of the gauges, which necessitated the commencement of the bandels in deep water, and consequently, they had to be made stronger in order to resist the force of the current.

Of the total expenditure Rs. 1,22,289, Rs. 32,643 represent the amount of arrears for the previous year, so that Rs. 80,646 were actually spent on training works from 1st October 1896 to 31st March 1897, inclusive of all charges.

157. The miscellaneous receipts during the year amounted to Rs. 82 MISCELLANE.

against Rs. 124 in the previous year.

138. No work was done under this head except at a few shoals, where Desposite sand was cleared by kodalis in order to keep up a running stream of good CLEARANCE.

drinking water for the towns and villages along the river banks.

159. The only plantations in connection with the Nadia rivers are those PLANTAMOR on the berms of the Bhagirathi embankment (Schedule D, No. 94). The number of trees is shown in the following statement:

YEAR.	Trees over 12 feet.	Saplings from 4 to 12 feet.	Seedlings below 4 feet.	Total.
1	2	3	4	5
1895-96 1896-97	No. 13,184 16,062	No. 4,020 2,731	No. 1,751 799	No. 18,955 19,582

### EDEN CANAL.

160. This canal is not navigable. partly in the Hooghly district, its supply of water being obtained from the Damodar. No Capital or Revenue account is maintained. The aggregate

length of the excavated channels remained the same as last year. The lengths of the several channels are as follows:-

жинов же не		* .		Miles.
Joojooty shrice and channel.  Eden Canal proper  Kana Damodar junction out  Saraswati junction cut  Connecting channel between  and the Kana Damodar  Connecting channel between  and Kana Nadi	the	Rankini	Doho	2 191 26 21 1 1 271

Besides the above, the natural channels of the Kana Nadi, Kana Damodar, Banka Nala, and North and South Saraswati are included in the system.

The gross area commanded by the Eden canal is about 300,000 acres, of which about 200,000 acres are culturable, and 100,000 acres irrigable.

161. The receipts and expenditure for the last two years are given

REVENCE ACCOUNT.

Expenditure.	1895-96.	1896-97.	RECEIPTS.	1895-96	1896-97
1	2	3	4	5	6
	Rs.	Rs.		Rs.	Rs.
Works	3,072 37,341	51,385 28,039	Water-rates Misoellaneous	30,763 355	36,775 316
Maintenance and repairs Establishment Tools and plant	14,951 606	28,625 408	Total Less-Refunds of Revenue	31,118 201	37,091 556
Total expenditure	55,970	1,08,457	Net total receipts	30,917	36,535
Balance, deficit	25,053	71,922			-

The following original works were in progress during the year:-

Distributary No. 1, 7 miles 4,270 feet in length, takes off from the Eden Canal above Regulator No. 3 at Chanchai. It will feed the Dhusi Nadi. The estimated cost of this distributary is Rs. 44,466, against which an expenditure of Rs. 23,229 was incurred during the year exclusive of land charges. the year exclusive of land charges.

Distributary No 2, the length of which is 9 miles and 4,055 feet, will feed the Ilsura.

Its estimated cost is Re. 49,759, and expenditure up to 31st March 1897 was 27,075. The upper portions of both these two nadis have considerably silted up, and fresh water will be supplied to these through the

be supplied to them through these new distributaries, while, it is hoped, they will also be largely used for irrigation. The earthwork was well advanced before the year expired, and most of the masonry works had been commenced. The total expenditure on original works during the year was Rs. 51,616.

The cost of maintenance, exclusive of charges for establishment and Tools and Plant, was Rs. 27,748, as compared with Rs. 37,341 of the previous year. The decrease was due to there being no silt clearance from the Banka above the weir at Kanchanaghur, which alone cost Rs. 8,585 in 1895.96.

The cold-weather supply of the canal was kept up, as usual, by a sand dam across the Damodar at Joojooty, at a cost of Rs. 3,829 against Rs. 3,522 of the

previous year.

RATHTALL.

The receipts from water-rates showed an increase of Rs. 6,012. The rainfall registered at Edilpur in the Bur Iwan district was 47.95 inches as compared with 44.43 inches in 1895-96, the fall during the kharif season being 25 43 inches, or 3.71 less than that of the previous year.

Regarding crop experiments, the Superintending Engineer CROP SEPERI-

"Some crop experiments were made during the year. The total number of these experiments was ten. The average outturn was that an acre of middle class land irrigated by canal water produced 29 mds. 26 seers of paddy and 37 mds. and 9 seers of straw, while an acre of similar land, which did not receive the benefit of canal water, produced 15 mds. 3 seers of paddy and 20 mds. and 15 seers of straw only."

164. The total area leased was 19,671 acres, as compared with 43,525 AREAS LEASED acres in 1895-96, the decrease being attributed to the non-renewal of several old ARD IRRIGAT. five and four-year leases which expired in 1895-96 in the Hooghly district,

owing to the want of proper means of irrigation.

The area irrigated during the year under review was 21,294 acres consisting of 14.659 acres of kharif and 1,286 acres of rabi in the Burdwan district, and 4,885 acres of kharif and 964 acres of rabi in the Hooghly district, as compared with 36,221 acres of the previous year, viz., 19,156 acres of kharif and 1,719 acres of rabi in the former, and 15,180 acres of kharif, and 166 acres of rabi, in the latter district.

Out of 4,385 acres irrigated in the Hooghly district during the kharif season, 2,352 acres received one watering only, as they were situated beyond the area commanded by the canal. There was no surreptitious irrigation during the

The areas irrigated by the Eden Canal during the last five years are shown below:-

Years	3.	Long leases.	Annual leases.	One flushing beyond area commanded.	Unauthor-ized.	Total.	Remarks
1		2	8	4	5	6	7
		Acres.	Acres.		Acres.	Acres.	
1892-93 1893-94	• • •	47,848 11,601	<b>6,534</b> 138	000	16,951	71,333 11,739	
1894-95 1895-96 1896-97	•••	19,650 30,195 16,580	20 1,984 2,362	720 3,884 2,352	158	20,390 86,221 21,294	

With the improved means of distributing the water, afforded by the new distributaries now under construction, it is anticipated that a much larger area

will be irrigated in future.

be irrigated in future.

165. The water-rates, assessed during the year, amounted to Rs. 31,452, COLLECTIONS
165. The water-rates, assessed during the unrealized balance.

ADD BALLAGE. as compared with Rs. 37,809 in 1895-96, and adding the unrealized balance, Rs. 33,883, of the four previous years, the gross demand for the year was Rs. 65,335 against Rs. 70,978 of the preceding year. Deducting Rs. 1,981 on account of commissions paid on advance payment, and remissions amounting

to Rs. 1,274, the net assessment of the year was Rs. 62,080.

The collections of the year amounted to Rs. 36,775. This sum includes Rs. 657 on account of interest which was realized by the Certificate officers and by the Subdivisional officers of Edilpore and Seijberiah, and Rs. 556 which was refunded to the lessees for excess payments made by them in 1895-96, the collection, therefore, was Rs 35,562. The balance unrealized at the close of the year was Rs. 26,518 against Rs. 33,883 in the previous year. Out of this sum Rs. 10,699 referred to in last year's Revenue Report will probably have to be written off as irrecoverable.

166. The cost of the revenue establishment during the year was Rs. 4,321

against Rs. 4,215 in the previous year.

167. The miscellaneous receipts amounted to Rs. 316 against Rs. 355 in 1895.96.

REVENUE MENT.

MINORILA-RECRIPTS

PLANTATIONS.

168. The expenditure on plantations was Rs. 72 against Rs. 76 in the previous year. Some mahogany seedlings died during the year, reducing

the total number from 327 to 303.

FLOODs.

169. There were five floods in the Damodar river during the year, of which the highest occurred on the 22nd July, when the river rose to 16 feet. The effect of this flood on both sides of the river was disastrous, but no damage was done to the canal.

## GAIGHATTA AND BUXI KHAL.

CHARMEL.

170. The re-excavation of this khal was completed during the year 1895-96 at a cost of Rs. 29,325. The cost of maintaining it during the year under review, inclusive of establishment charges, was Rs. 659. The right of collecting tolls on the khal has been leased for five years, commencing from the year 1896 97, at an annual rental of Rs. 4,500. Rupees 3,800 were realised before 31st March 1897, and the balance, Rs. 700, has since been realized under head miscellaneous a sum of Rs. 20 was realized during the year head miscellaneous; a sum of Rs. 20 was realized during the year.

### MADHUBAN CANAL.

171. The expenditure incurred in maintaining this canal during the last five years is shown below:-

PARTICULARS.	1892-98	1893-94.	1894-95.	1895-96.	1896-97	
1	2	8	4	8	6	
	Ra.	Bs.	Rs.	Ra.	Ro.	
Maintenance .	7,093 2,813 126	5,943 2,438 2	5,567 2,405 36 27	2,488 1,269 7 44	3,859 1,861 71	
Total .	10,032	8,383	8,035	3,808	5,791	

REVENUE

No revenue is derived from irrigation on this canal, as water-rates are not levied.

The miscellaneous receipts were Rs. 100 against Rs. 121 in 1895-96. 172. The total area irrigated was 11,251 acres, as compared with 2,254 acres in the previous year. There was great demand for water throughout the whole year, especially in the cold weather from September to March. The figures for the area irrigated are unreliable, as no measurements are made. The long proposed Lakhaura distributary from this canal was undertaken as a Famine Relief Work.

The areas of the different crops irrigated during the last five years were

as follows

Nature of crop.	1892-93.	1898-94.	1894-95.	1895-96	1896-97
1	2	8	4	5	6
Rabi	Acres. 4,895 150 734 640	Acres. 2,710 46 301 14	Acres. 6,033 117 322 46	Acres. 980 112 783 379	Acres. 5,878 1,905 2,342 1,131
#T 4 3	6,400	8,071	5,518	2,254	11,251

173. The state of the plantations for the last two years is shown below: -- Plantations.

YEAR.	Trees over 12 feet.	Saplings between 4 and 12 feet.	Seedlings under 4 feet.	Total.
1	2	3	4	5
1895-96 1896-97	No. 251 251	No. 240 241	No. 211 212	No. 702 704

### GENERAL RESULTS.

174. The net results of the year 1896-97, compared with those of the Net BEYENUE. previous year, are shown below:—

Particulars.		Receipts from all sources.	Working ex- penses, includ- ing refunds of revenue, (Direct and indirect charges.)	Profit or loss	
	1		2	3	4
MAJOR I	RRIGATION WO	RKS.	Rs.	Ra.	Rs.
1895-96 1896-97	•••	•••	15,15,815 19,09,618	13,91,926 13,74,115	+1,23,389 +5,35,498
MINOR WO	RKS AND NAVIO	BATION.			
	Capital and Ro	epenue			
1895-96 1896 97	***	•••	5,45,406 5,27,627	3.63,472 3,31,090	+1,81,934 +1,96,537
For which	only Revenue accare kept.	counts			
1895-96 1896-97	• 6 q	***	1,25,230 97,294	1,59,844 1,31,502	-34,614 -34,208
_	h neither Capita accounts are key				
1895-96 1896-97	000	•••	31,239. 87,191	59,979 1,23,962	(-)28,740 (-)86,771
Total {	1895-96 1896-97	***	22,17,190 25,71,725	19,75,221 19,60,669	+2,41,969 +6,11,056

The total receipts exceed the figures of the revised budget estimates by Rs. 2,12,125, while the total direct expenditure was Rs. 1,22,720 less than that provided in the budget.

175. Reckoned on earnings, that is, on assessed revenue, as opposed to actual receipts, the net results of the Major Irrigation Works for the last two years were as follows:—

KARRINGS.

		Earnings.	Working; expenses.	Profit or loss.
		Ra.	Rs.	Rs.
1895-96	***	 15,75,482	13,91,926	(+)1,83,556
1896-97	•••	 20,97,981	13,74,115	(+)7,28,866

The revenue from Minor Works and Navigation is derived mainly from

tollage receipts.

176. The work done during the year, in the recovery of water rates was, on the whole, excellent, and the reduction of the uncollected balance from Rs. 67,460 to Rs. 25,464 is very satisfactory.

The figures for the three canal systems are given below:—

	Canals.		Outstanding on 1st April 1896.	Demand of 1896-97.	Collected or adjusted.	Outstanding on 1st April 1897.
	1		2	8	4	5
Orissa Midnapore Sone	•••		Rs. 84,343 10,124 22,993	Rs. 2,35,517 1,05,660 9,49,666	Re. 2,65,263 1,04,345 9,63,231	Rs 4,597 11,439 9,428
	Total	000	67,460	12,90,843	13,32,839	25,464

		DRHAND.			Tions, Incl. Emissions,	DIRG		468 OF COL	
CAHAL	Arrear.	Ourrent.	Total.	Arrear,	Ourrent.	Total.	Arrear.	Current.	Total.
1	3	8	4	8		7	8	0	10
1806-07.	Ba.	Re.	Ra.	Ba.	Ba.	Ro.	Re.	Ro.	Re.
Origon Canale	15,220	2,21,086 1,00,665 9,48,290	1,49,860 1,16,765 9,73,558	49,740 14,311 95,124	2,16,514 90,035 9,39,306	2,68,263 1,04,346 9,64,430	99194 94192 98128	97°93 90 52 90 03	90°12 90°12
Total, 1898-97	89,579	12,67,931	13,59,503	88,184	12,45,886	13,34,039	98.45	98:10	86,15
Orissa Oanals Midnapore Oanal Bone Oanals	41 242	1,66,967 1,04,111 6,55,813	1,0%,080 6,97,086	87,581 8,464 40,283	1,41,973 98,964 6,33,777	2,20,524 9H,636 6,74,042	92:19 7: 67 97 43	84'n8 91 29 96'63	96'99 90 de 96'70
Total, 1896-96	1,40,781	9,28,831	10,00,501	1,81,884	8,70,796	10,03,123	83-80	93:78	93:00

ARREARS.

177. In the following table a comparison is made between the approximate value of crops irrigated by Major Irrigation Works during 1896-97 and the previous year :-

	Canals.		1895	96.	. 189	6-97.
	Canale.		Area irrigated.	Value of crops.	Area irrigated.	Value of crops.
	1		2	3	4	6
Orissa Midnapore Sone	***	•••	Acres. 117,996° 65,251 895,222	Rs. 25,44,254 21,53,283 1,34,87,081	Acres. 185,048 65,183 555,156	Rs. 67,10,879 31,93,967 2,66,62,086
	Total	•••	578,469	1,81,84,618	8,05,387	3,65,66,932

<sup>\*</sup> Exclusive of 1,466 acres of additional kharif demand assessed after the close of the year.

The average value per acre of the various crops irrigated has increased from Rs. 31.43 to Rs. 41.82.

The date fixed for the submission of revenue reports to the office of DATE FOR SUBMISSION OF the Chief Engineer is the 5th September. The dates when the different reports were received are shown below:-

			In 1896.	In 1897.
	Orison Circle	Deputy Collector's report through Commissioner.	11th September.	18th September.
•	South-Western	(Buperintending Engineer's report	2nd ditto.	4th ditto.
	Sone Circle	Circle Commissioner.  Superintending Engineer's report  Deputy Collector's report through  Commissioner.	4th September. 7th ditto.	1st ditto. 7th ditto.
		Superintending Engineer's report	28th August.	24th August.

All were punctual.

179. As far as irrigation is concerned, the year was one of a more favour-

able character than the two years preceding.

The year 1896-97, though fraught with scarcity and distress to the country generally, was an exceedingly favourable one for the canals in Bengal. The rainfall, though plentiful in Orissa and Midnapore, was very deficient in the Sone, and was badly distributed in all districts. Rain failed entirely at the critical periods when it was most required for the crops. The consequence was an extraordinary demand upon the canals for water, and an unprecedented extension of the area irrigated. It has occasionally happened that the vagaries of the rainfall have caused a large extension of irrigation either in the kharif or in the rabi season, but this year the increase occurred in both seasons. The increase is most remarkable in the Sone Canals, where the area watered was the largest on record, far exceeding that of 1891-92 which has hitherto stood forth as the record year. In Orissa, too, the area was very large as compared with previous years. It may well be imagined that such a year would be one of extreme pressure on the canal officers; in the Sone Circle the strain was incessant throughout the kharif and rabi sensons. The results are better than any which have been declared before, and though this is admittedly due largely to the character of the season itself, it is none the less true that such results could not have been obtained without hard work, patience, and cheerful co-operation among all members of the staff. The Superintending Engineer writes in the highest terms of the work done by the Executive Engineers, Messrs. T. Butler, C. H. Demello, and L. G. Searight. The Subdivisional Officers Messrs. O. S. Smith, W. S. Bremner, E. Blaber, C. W. Sibold, Babus J. N. Bose, S. S. Pal, T. C. Sircar, K. C. Bannerjee, R. L. Sircar, M. N. Sircar, also bore their full share of the work, and are deserving of praise. On the Midnapore canal the demand for irrigation in October was great, and the supply of water available was very limited. The Superintending Engineer reports that it was only by the personal energy of the Executive Engineer Mr. Barlow and his staff that so large an area was irrigated with such an inadequate supply. Good work was also done by the officers of the Orissa Canals where the rush for water in October was considerable.

Taking all the canals together, the cost of their maintenance showed a slight reduction, though the expenditure on the Sone and Orissa Canals had rather increased. The marked reduction in the cost of maintaining the Sone and Orissa Canals, observable last year, was referred to in terms of great satisfaction; but as it is clear that expenses cannot be brought down below the sum necessary for keeping the canals in a thoroughly efficient state, a continuous record of reduced expenditure cannot be looked for. For the last few years the progress in the collection of water-rates has steadily improved in the most satisfactory manner, and this year the results are exceptionally good. In the Sone Circle the transactions were very large, and not only was the uncollected balance the lowest, and the percentage of collections the highest on record, but the percentage was over 98, which leaves but little margin for further improvement. These very satisfactory results are most creditable to the Deputy Collector Maulvi Syed Mahomed Nasiruddin and his staff. The collection

work in Orissa was good.

180. It is gratifying to have to record a further development of traffic on the canals classed as Major Works, the receipts from which showed a considerable advance. The large export of rice to less favoured districts

The Calcutta and Eastern Canals and the Orissa Coast Canal were not so successful, though the falling off is not serious. The state of affairs in the Nedia Rivers continues to be a source of disappointment. Last year hopes were entertained that a way out of the difficulty might be found, but a satisfactory solution of the problem seems as far off as ever. Low floods in the Ganges caused the closure of the route at an unusually early date, and the tollage receipts fell to a deplorable extent. The question of improving the route occupies, as it has continued to do for many years, the earnest attention of the officers concerned; but it is no easy matter to deal with, and it seems inadvisable at present to hold forth any prospects of early improvement.

181. The rules for the guidance of officers conducting experiments on the outturn of crops, which were referred to in the Revenue Report of last year as being drawn up, have been issued, but they were not brought fully into operabeing drawn up,

tion during the year.

A. D. McARTHUR, Col., B.E.,

Chief Engineer.

The 25th October 1897.

		OBI	ORIBSA CANALS			*	80	SONE CANALS.			oreiter of the state of the sta	
Particuland.		Mahanadi Series.	Brahmini-Byturni Bories.	.latoT	Midnapore Canal.	Janeo labiT üijiH	Eastern Main Canal	Western Main Canal	Total.	Sama Canale.	Calcutta and Es	Jamed Jeac Coast Cenal.
gard.		•	ಣ	4	16	80	2	90	6	10	11	12
Source of supply of water	:	River! Ma- hanadi.	Bivers Brahmini	0 0 0	River Cossye.	Rivers Bup- narain and Russalpur.	River Sone.	Sone.		River Gan-	and rban	Rivers Rusanl- pur, Subarnare- kha, Panchpara, Burrabolong
of river—cubic feet Kharif Habi  Canals—cubic feet per second fall  mplete project  sent		Not taken 1,148 289 2,902 61-43 483,800 439,951 819,671	turni. Not taken. Ditto Ditto 2,156 66.14 137,500 137,500 137,600	6.958 65.88 65.1390 677.461 677.461	205 6 70,319 64,39 180,100 175,000 126,000	Tidal Canal for na-	6,267 1,868 1,860 422 1,850 4224 406,165 817,307 809,040 809,040	October 2 Rebruary May 31st, 4,500 40.36 1,327.354 1,036,995 707,360	22nd, 1883. 16th, 1884. 1884. 6,350 41.16 1,735,509 1,354,600 1,354,600 1,016,400	5,082 March, 1884. 1,084 42°66 64,000 50,000 50,000 50,000	Tidal Canals for a navigation only.	Tidal Canal for S. Vino noilsagivan
truction	R ::	3,14,54,901 9,21,550 1,21,54,723		3,14,64,901 9,21,650 1,21,64,723	83,73,091 1,84,216 54.17,730	26,41,849 67,620 2.17,460	2,78,98,697 13,99,€∪7 29,67,227	78,88,697 18,99,07 29,67,227	2,78,88,607 13,49,607 29,67,227	6,63,621	* 0 0	43,46,873
Total estimate	4	4,46,31,174		4,45,31,174	1,39,75,036	28,26,939	3,22,55,531	5,531	3,22,65,631	6,96,632	(a)	44,74,941
Expenditure to end of 1896-97— Direct charges Indirect do	¥ : :	2,66,56,103 5,80,926 2,17,89,497		2,56,56,109 5,80,926 2,17,39,497	82.76,723 1,84,529 80,61,929	25,61,429 63,613 20,37,464	2,59,80,971 9,16,397 3,17,72,201		2,69,90,971 9,16,397 2,17,72,201	6,69,570	78,75,537	48,91,938
Total expenditure	6	4,79,76,526	8,526	4,79,76,526	1,66,22,181	46,62,396	4.83,69,569	9,569	4,86,69,669	6,96,753	69,66.388	(6) 44,98,290
Works as now sanctioned— Main canals, irrigation Branch do, do Distributaries, including village channels	Wiles ::	1384	93.64 63.48	1704	63 19 304.89	ZZZ	864 Nil 8604	1322 1483 879	2184 1484 1,2294	124 Nil 124	NET	ZZZ
gable channels	Miles	2023	90	\$40 <del>}</del>	75	29	90 44 44	132\$	2184	Nil	42	102
Main canals, irrigation  Branch do., do.  Distributaries, including rillage channels	Miles	138§ 103 962	313 69 1294	1701	58 19 19	ZZZ	86} Nil 860}	1822	2184 1484 1,8294	124 Wil 124	NII P	EEE
Navigable channels	Miles	166	88	204	79	29	863	1324	2183	Nii	47(c)	102

(a) There is no general sanctioned estimate for this project.

(b) Includes Rs. 8,66,000 expended from Falief Funds.

(c) This length is that of the Calcutta and new cut Canals and Tolly's Nala with 20 miles of Kaonagukur khal. The Eastern Canals are 316 miles in length, steamer route 350 miles, and bheel route between Kumar and Machamati rivers connecting Khulna with Madaripore, 34 miles. Total length of the Calcutta and Mastern canals system, 737 miles.

CAPITAL ACCOUNT OF IBRIGATION WORKS IN BENGAL FOR, AND TO END OF, 1896-97.

100		DIRECT	OHAROES (NET	I Expunctions).	URE).		Indirect		
IRRIGATION WORKS.	Works.	Establish- ment.	Tools and plant.	Suspense accounts.	Loss by exchange.	Total.	charges, ex- clusive of interest.	Fotal capital, exoluding interest.	Simple interest.
	જ	65	4	10	9	1-	Œ	6	10
Major Irrigation Works.  Orissa Project To end of previous year During 1896-97  Tidal Canal Tiden Of previous year During 1896-97  To end of previous year To end of previous year During 1896-97  Sone Project During 1896-97	Rs. 1,86,65,950 8,431 53,48,026 4,927 17,73,408 25,731 1,85,56,529 — 12,329	Re. 46,38,605 2,059 19,19,580 5,77,780 5,631 51,74,297 1,780	Rs. 20,37,119  9,07,257 1,36,089 5,600 21,15,210 18,486	81,874 3,405  1,11,983	Rs. 2,68,070 94,800 22,790 52,240	Re. 14,895 82,69,683 6,060 85,15,067 36,368 2,500,10,259	Re. 5,80,638 2,849 62,726 9,16,148	Rs. 15,1846 15,183 84,54,033 85,77,792 2,69,26,407 2,69,26,407 2,69,26,407	Rs. 2,07,13,551 10,25,946 77,31,021 3,30,308 19,36,124 1,01,330 2,07,32,376 10,39,825
Total To end of previous year During 1896-97	4,43,48,913	1,23,10,352	51,95,675 	1,43,357	4,37,900	6,24,36,197	17,43,881	6,41,80,078 29,513	5,11,13,072 24,98,009
Menur Works and Nacigation.									
Tirhut Project To end of previous year Damodar " To end of previous year During 1896-97 " Saran " To end of previous year During 1896-97 Orissa Coast Canal To end of previous year Orissa Coast Canal To end of previous year Oricular and East. To end of previous year orn Canals. During 1896-97	90,686 43,077 -1,200 4,79,448 33,62,629 12,697 46,23,698 3,61,859	4,83,943 94,864 1,64,170 7,51,478 2,920 4,14,591 81,164	6,797 4,800 25,952 2,27,911 1,010 8,78,564 10,903	29,747 8,656 8,986		5,31,425 1,42,741 -1,200 6,69,570 43,71,665 20,273 54,21,139 4,54,398	74,650 16,239 27,183 1,05,948 65,214 14,577	6,06,075 1,58,980 -1,200 6,96,753 20,682 54,86,353 4,68,975	
Total To end of previous year	85,99,437	18,69,346 84,084	6,44,024	33,733 4,128		1,11,36,540	2,89,229	1,14,25,769	* *
GRAND TOTAL   To end of previous year   During 1896-97	5,29,48,350	1,41,69,698	68,39,699	1,77,090	4,37,900	7,35,72,737	20,33,110	7,56,05,847 6,17,970	5,11,13,072

Receipts on Capital Account deducted from the following heads:

Total.	Be.	49,849 1,200 498 3,393 5,467	
Tools.	Ä	908	
Establish- ment.	Rs.		
Works.	Be.	47.549 1,200 498 3,028	
		Damodar Project { To end of previous year Saran Project } To end of previous year Orissa Coast Canal { To end of previous year Calcutta and East- { To end of previous year ern Canals. } During 1896-97 ern Canals.	
Total.	Rs.	86,237 514 31,558 31,446 39,775 158	
Tools.	Be.	11,590 11,590 1,33,640 18,588 18,588	
Establish- ment.	Re.	13,300 7,300  33,711 	
Works.	Bs.	44,657 614 12,668  10 2,08,094 2,01,119 2,11,119	
		Orius Project To end of previous yest  Midnspore Ganal To end of previous yest  Tidal Canal To end of previous yest  Sone Canal To end of previous yest  Tithut Project To end of previous yest  Tithut Project During 1896.97	

I

# STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION

Realizations under minor heads of

J1				REVEN	UB (ACT	UAL REC	EIPTS).					-
	lar	RIGATIO	w.		4					refunds).	and the same of the same of	REVEN
Incidential Works.	Water-rates directly paid.	Share of land rove- nue.	Total.	Navigation.	Plentations and lands.	Water-power.	Miscellancous.	Total.	Refund of revenue.	Gross receipts (less n	Direction.	Betablas
4 1	2	8	•	5	G	7	8	9	10	11	18	13
MAJOR WORKS.	Ra.	Re.	Rs.	Rs.	Ru.	Ra.	Ra.	Ro.	Ro.	Re.	Rs.	Re.
Orices Project	2,46,777	***	2,46,777	1,94,100	2,198		80,843	4,74,917	1,970	4,72,047	5,559	41,127
Midnapare Canal	1,00,618		1,00,618	3,54,818	28	· # 0	96,896	2,79,757	1,000	3,78,667	2,980	18,502
Hijili Tidal Canal			***	89,511	30		3,405	90,946		90,946	858	3,591
Hone Cenal	9,67,728		9,57,726	70,006	2,958	1,507	82,656	10,64,693	5,046	10,59,645	4,418	47,10
Total Minor Irrigation Works.	13,06,121		13,05,121	5,07,632	6,014	<b>},34</b> :	69,299	19,00,618	7,408	19,02,305	13,496	1,00,000
MINOR WORKS AND NAVIGATION.				•						,		
Works for which capital and revenus accounts are kept.									270	934	236	557
Saran Project	83	***	63		*		1,240	1,206				
Oriesa Const Canal	***	***		83,886		***	2,465	86,200	116	86,141	1,358	6,430
Calcutta and Eastern Ca- uais.	,		40.	4,96,425		400	14,639	4,60,064	126	4,80,388	4,515	- I Lio
Total	43	,,,	53	8,10,281	3		17,290	8,27,087	616	8,27,013	6,093	-5,70
Works for which only recemes accounts are hept.										00 474	1,633	10,75
Wadia Rivers	000		040	93,898	101		86	98,474	4.7	98,476	13	
Quighatte and Buxt Khale			,	8,800	-	***	90	8,600	***	3,920		
Total	***			97,193			103	97,294		97,294	1,534	16,63
Works for which neither capital nor recense ac-									816	36,535	61.	601
Eden Canal	26,775		36,775		***		236	87,098		190		-
Madhuban Canal	0.00		•••		-		180	100	***			
Total	36,778		36,775				410	87,191	A50	36,638	101	
Total Minor works and	d 36,928		85,528	6,07,473	8		17,808	0,03,118	1,170	0,60,949	7,636	-
Asvigation.  Grand Total		-	18,41,940	11,15,306	6,017	1,847	1,07,107	96,71,788	9,678	25,63,147	21,123	1,00

(b) Rupers .511 were expended during the year on account of salaries and travelling allowances of the tempurary establishment, consister

C.

# WORKS IN BENGAL FOR THE YEAR ENDING 31er MARCH 1897.

Revenue and Working Expenses.

					W	OFFING	BXPENS	MS.							
MAYAG	BMBST.						MAINTENA	THOR OF W	ORES.					ä	
ment.				Bstabli	shmer	at.								Porking	19
Navigation.	Civil officers(s).	Total.	Direction.	Executive.	Medical.	Total.	Works.	Repaire.	Sundries.	Tools and plant.	Plantations.	Total.	Indirect charges.	Grand total w	Not revenue.
16	15	16	17	18	19	80	81	93	23	26	25	26	27	28	19
Re.	Re.	Ro.	Re.	Re.	Re.	Re.	Re.	Re.	Ra,	Re.	Ra,	Ra.	Rs.	Ra.	Bo.
17,135	72,778	1,56,689	5,589	61,127	900	86,716	8,850	2,17,512	000	17,578	181	4,66,478	31,268	4,95,743	h -92,79
8,810	29,663	62,865	2,981	16,983	900	21,914	9,056	1,07,868	000	30,827	287	2,52,837	10,472	2,33,509	45,85
3,088	***	8,068	888	8,521	***	4,079	***	22,309	***	4,000	41	38,490	1 701	40,191	80,78
14,954	1,60,630	2,57,006	4,419	87,102	***	91,521	85,029	1,46,621	3	23,400	5,094	5,48,671	49,798	5,97,464	4,62,18
44,387	9,45,971	4,74,886	13,497	1,70,73:1		1,84,230	89,944	4,04,803	3	76,805	8,603	12,74,478	92.184	13,66,797	5,35,48
													!		
***		1,093	235	837	***	1,093		9,340	***	36	77	11,638	306	11,934	-11,00
7,006		16,776	1,338	8,430	40.	9,768		83,526	***	4,000	***	84,067	3,716	87,783	-1,6
40,376	4+4	29,806	4,518	-14,988		-10,470	49,060	1,30,496	000	24,001	1,160	2,28,002	2,707	2,30,789	3,00,11
47,382	100	47,678	6,091	-5,701	200	380	40,089	1,93,361	***	32,027	1,257	3,23,747	6,729	3,80,476	1,00,8
94,873		42,649	1,522	16,754	*1 *	18,276	***	60,878	-1,185	1,646		1.23, 299	8.529	1,30,818	-87,34
000	500	88	13	76	***	87		484	004	142		650	25	684	3,13
84,873	***	49,787	1,684	16,899	840	18,863	,,,	61,367	-1.185	1.646		1,22,948	8,554	1,31,502	~34,20
000	(b)	000	•••	28,625	*1*	26,625	61,385	20,000	100	408	***	1,08,457	•	1,08,457	-71,92
905	***	***	840	1,061	504	1,861	100	3,659	***	71		5,791	1.	8,791	5,60
	994	+50		30,466	690	80,486	51,385	31,896		479	**1	1,14,248	***	1,14,248	-77,613
71,055		90,410	7,015	41,614	402	49,239	1,00,444	2,86,616	-1,155	34,152	1,237	5,60,948	15,283	5,76,298	84,71
16,042	2,45,971		21,122	2,12,847	_	3,13,469	1,40,388			1,09,957	8,840	18,35,416	1,07,517	19,42,983	6,20,214

employed in collection of revenue.

Eilladare, Muharrire, and Patrols, employed for the supervision and management of irrigation and collection of revenue from the Eden Canal.

### IIC.

## STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION WORKS IN BENGAL FOR 1896-97, BASED ON ACTUAL RECEIPTS.

Principal Results of Operations for the year ended 31st March 1897.

	Direct and	Charles Daniel	Working	Net	f net reve- pital out- of the year.	per cent. capital nencement nd 2 per tlay during	SURPLUS AFTER P TERBST ( CAPITAL	REVENUE AYING IN- ON DIEECT OUTLAY.	EXCESS CONCLUDING ON DIRECT OUT	CARRENT
Indigation Works.	indirect d	lirect and		excluding charges for interest)	Percentage of net revenue on capital out-	Interest at 4 per cent. on direct capital at commencement of year and 2 per cent. on outlay during the year.	Amount.	Percentage on total sum at charge.	Amount.	Percentage on total sum at charge.
1	2	8	4	5	6	7	8	9	10	11
Major Ibrigation Works.	Rs.	Re.	Re.	Rs.		Rs.	Re.	Rs.	Rs.	
In operation.  Tidal Canal	26,14,942	90,946	40,191	60,765	1.94	1,01,830	***	d 0 0	60,576	110
In progress.  Orissa Project	2,62,37,029	4,72,947	4.95,743	-22,796	deficit ·08	10,25,946	•••	***	10,48,742	1
Midnapore Canal	84,60,252 2,68,97,368	2,78,6 <b>67</b>	2,33,309 6,97,464	46,358	·53	8,90,908 10,39,825	•••	401	2,85,550 6,77,644	0.01
Sone Project	2,00,91,300		0,01,00				-			-
Total ,	6,42,09,691	19,02,205	13,66,707	5,35,448	-83	24,98,009	***		19,62,511	₩05
MINOR WORES AND NAVIGATION.										>
In operation.	6,96,753	934	11,934	11,000	deficit 1.67		•••	800	***	447
Saran Project Calcutta and Eastern		4,39,938	2,30,759	2,09,179	8.61	. 000	• • •	9.64	***	000
Canals.  Nadia Rivers	864	93,474	1,30,818	- 37,344	•••	***	489	800		, J
In progress.	44,98,290	86,141	87,783	1,642	deficit		•••	***	***	sul <sup>2</sup>
Orissa Coast Canal Gaighatta and Buz Khals.		8,820	1	3,136	4 0 0	***	***		***	gd1
Abandoned or held in										1
	6,06,07	5	***	***		4 6 P	•••	***	***	907
Damodar Project .	1,57,78	0	***	***	•••	***	•••			_
Total	1,19,14,22	6 6,24,30	7 4,61,97	8 1,62,929	1.3	6	441	***		***

DEMANDS AND REALIZATIONS DURING THE YEAR 1896 97.

					*		
2	Balance of demand unrealized at com- mencement of the year.	Demands of the year.	Total.	Deduct remissions not including each refunds.	Net total.	Deduct amount un- realized at end of the year.	Actual receipts of the year.
1	2	3	4	5	6	7	8
Major Irrigation Works.	Rs.	Ra.	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa Project	84,848	4,62,957	4,97,300	18,486	4,78,814	4,597	4,74,217
Midnapore Canal	10,124	2,84,799	<b>2,94</b> ,923	3,727	2,91,196	11,439	2,79,757
Tidal Canal	***	90,916	90,946	• • •	90,946	•••	90,946
Sone Project	<b>22,</b> 993	10,56,633	10,79,626	5,505	10,74,121	9,428	10,64,693
Total	67,460	18,95,335	19,62,795	27,718	19,35,077	25,464	19,09,613
Minor Works and Navigation.							^
Saran Project	***	7,690	7,690	120	7,5.0	6,266	1,304
Orissa Coast Canal	***	86,259	86,259		86,259	***	86,259
Calcutta and Eastern Canals	***	4,40,064	4,40,064		4,40,064	***	4,40,064
Nadia Rivers		93,474	93,474	•••	98,474	140	93,474
Gaighatta and Buxi Khals		3,820	3,820	***	3,820		3,820
Eden Canal	<b>33,8</b> 83	32,981	€6,864	3,255	63,609	26,518	37,091
Total	33,883	6,64,288	6,98,171	3,375	6,94,796	32,784	6,62,012
GRAND TOTAL	1,01,843	25,59,623	26,60,966	31,093	26,29,873	58,248	25,71,625

NOTE -Refunds of revenue have not been deducted from the actual receipts of the year.

IV

# STATEMENT SHOWING THE FINANCIAL BESULTS OF IRRIGATION WORKS IN BENGAL

Principal Results of Operations for

				REVE	NUE A	SSESSE
	Capital out-	-			DIREC	T ASSESSE
IRRIGATION WORKS.	lay (direct and indirect) to end of the year.	Occupier's water- rates.	Owner's rates.	Plantations.	Water-power.	Navigation.
1	2	8	4	5	8	7
MAJOR IRRIGATION WORKS.	Re.	Rs.	Ra.	Rs.	Re.	Rs.
Orissa Project	2,62,37,029	2,63,420		2,998	000	1,95,418
Midnay ore Canal	. 84,60,252	1,05,661		28	***	1,51,176
Hijili Tidal Canal	26,14,912			30		89,511
Sone Project	2,68,97,368	11,24,449	0 0 0	2,958	1,347	71,686
Total major irrigation works	6,42,09,591	14,93,530	•••	6,014	1,347	5,07,79
MINOR WORKS AND NAVIGATION.					•	
Works for which Capital and Revenue accounts are kept.			,			
Saran Project	6,96,753	6,416	• • •	8		0.00
Orissa Coast Canal	44,98,290	•••		•••	***	83,856
Calcutta and Eastern Canals	59,55,328	•••	•••	600	6	4,26,42
Total	1,11,50,371	6,416	•••	3	***	5,10,28
Works for which only Revenue accounts are kept.						
Nadia Rivers		***	***	***	•••	93,39
Gaighatta and Buxi Khale		•••	•••	***	***	3,800
Total		•••	•••	***		97,19
Works for which neither Capito nor Revenue accounts are kept.	ıl .					
Eden Canal		60,080	•••	•••	,	
Madhuban Canal			•••	•••	•••	
Total	400	60,080			8 * *	
Total minor works & navigation	1,11,50,371	66,496	***	8		6,07,47

N. B.—The sensered revenue means the revenue assessed on the irrigation of the year independently of whether the demand is given in column 3

FOR THE YEAR ENDED 1896-97, BASED ON ASSESSMENTS OF THE YEAR.

the year ended 31st March 1897.

URING	THE YE	EAR.				uses	revenue	capital of the
Miscellane- ous.	Total.	Refunds of revenue.	Gross assessed revenue,—less refunds.	Ludirect revenue  Land revenue due to operations of canals	Grand total.	Working expenses (direct and indirect).	Net assessed reve of the year.	Percentage on car outlay to end of year.
8	9	10	11	12	13	14	15	16
Rs.	Rs.	Rs.	Rs.	Re.	Rs.	Rs.	Re.	
80,342	4,92,178	1,270	4,90,908		4,90,908	4,95,743	- 4,835	deficit. 0.01 profit.
24,896	2,81,761	1,090	2,80,671		2,80,671	2 33,309	47,362	v056 profit.
1,405	90,946	***	90,946		90,946	40,191	50,755	1.94 profit.
32,656	12,33,096	5,048	12,28,048	***	12,28,048	5,97,464	6,30,584	2.34
89,299	20,97,981	7,408	20,90,573	•••	20,90,573	13,66,707	7,23,866	profit.
1,248	7,667	870	7,297		7,297	11,934	- 4,637	deficit.
2,403	86,259	118	86,141	•••	86,141	87,783	- 1,642	deficit.
13,639	4,40,064	126	4,39,938		4,39,938	2,30,759	2,09,179	profit. 3.51
17,290	5,33,990	614	5,33,376		5,33,376	3,30,476	2,02,900	profit. 1·81
82	93,474		93,474	***	93,474	1,30,818	- 37,344	***
20	3,820	***	3,820	•••	3,820	684	3,136	000
102	97,294		97,294	•••	97,294	1,31,502	- 34,208	***
								.0
316	60,396	556	59,840	***	59,840	1,08,457	- 48,617	•••
100	100		100	***	100	5,791	- 5,691	•••
416	60,496	556	59,940	400	59,940	1,14,248	- 54,308	***
17,808	6,91,780	1,170	6,90,610		6,90,610	5,76,226	1,14,384	•••

statements were completed within the year or not. The actual amount of the demand statements issued during the year of Table IIIC.

ID.

STATEMENT OF TRAFFIC ON CANALS IN BENGAL DURING THE YEAR 1896-97.

Particulars.	Orispa Canals.	Midnapore Canal.	Hijili Tidal Canal.	Sone Canals.	Calcutta and Enstern Canala	Coast Canal.	Total.	Nadia Rivers.	Grand To
	3	3	•	В	6	7	6	9	10
Length of canal open for navigation Miles	204	73	29	218}	47(a)	103	673}	465	1,126
RECEIPTS.  Tollage—Private boats Rs.	1,53,925	1,60,894	89,058	50,304	4,21,156	82,240	9,47,617	92,717	10,40,23
Government boats Rafts Carrying operations or trans- ment	4,337 36,838	3,381	382	6,141	302	1,311	49,399	<b>63</b> 8	16,44 49,36
port services.) boats.		8,016	121		4,967	306	18,409	37	13,66
Total receipts ,	1,94,100	1,62.231	59,511	70,008	4,26,425	83,856	10,36.129	93,392	11,19,62
Maintenance charges, in- cluding special navigation establishment,	40,029	12,380	40,191	27.455	2,30,885	87,901	4,38,841	1,30,818	5,60,669
Net revenue of year ,,	1,64,071	1,49,851	49,320	42,561	1,95,540	(-) 4,045	5,87,288	(-) 37,426	5.41,002
Total number of boats ply- ing cargo No. Ditto ditto presenger Ditto ditto empty boats	12,729 2.110 10,707	29,929 11,631 4,282	13,035 1,221 8,723	3,771 677 3,496	84,825 10,116 89,184	9,171 3,740 8,105	152,960 28,495 73,477	18.045 15,658 7,782	171,0H 44,150 81,861
Total	25.546	45,822	22,979	6,944	133,625	20,016	254,932	41,484	26.6
Fotal registered tonnage of boats by canal measurement, cargo Tons Ditto ditto passenger Ditto ditto empty boats .,	222,814 93,500 70,724	368,633 63,331 85,995	221,920 16,194 52,581	77,062 12,385 16,128	798,493 9,816 22,587	134,918 26,898 43,879	1,813,730 222,124 391,894	848.401 23.725 62,691	2,1/2,13 245,8 354,8
Ditto ditto empty boats	387,038	507,959	290,595	105,565	830,896	206,695	2,327,748	434,720	2,761.6
Ton-mileage-Up		3.611,607	1,892,565 <b>3,53</b> 0,613	2,436,777 2,495,097	1,353,5 <b>52</b> 7,70 <b>3</b> ,418	2,5£8,839 2,728,204	18,483,871 29,860,277	} Nil	-
Ditto —Down "	13,985,576		5,423,178	4,931,874	9,056.970	5,282,043	47,814,148	Nil	
Estimated value of cargo— Up Rs.	38,62,849 60,25,998	60,53,214	20,49,326 48,73,144	23,22,345 32,85,013	64,46,879 5,01,24,342		2,37,22,498 7,37,65,073	88.78,574 1,03,96,868	8'91'01's
Down ,		1,32,00,930	69,22,470	66,67,388	6,66,71,221	43,46,720	9,64,87,571	1,92,76,412	11,01,03,0
Total ,,			00.485	40.040	66,930	89,648	503,376	48,919	881.5
Number of passengers - Total No.  Rafts, feet k feet × feet - Up c. ft.	131.072	7.704	28,075 32,161	3,760 1,833,188	14,698	7,182	196,476 2,783,110	690 237,980	3,000
po o, ,, Down w	559,170		7,827	1,836,988	_		2,929,585	228,670	8,184
Total ,  Estimated value of rafts— Total Rs.	1,25,93		32,660				6,14,663	42,388	6,5,46
Total Rs.  Tollage on boats per ton per mile Pies Tollage on rafts per 100 cubic feet Rs.	2-1	1 3.2	8·1 0·88	1:96	0:66	2.9	eg1	Nil 0:28	1

<sup>(</sup>a) This length is that of the Calcutta and now cut Canals and Tolly's Nale with 20 miles of Kasrapukur Khal. The Eastern Canals are 316 miles in length is not route is 180 miles, and the outer book route 187 miles. The steamer route is 316 miles, and the object route between Kumar and Madhumsti river connected in 34 miles. Total length is 737 miles.

9

DESCRIPTION AND QUANTITIES OF GOODS, &c., CABRIED ON CANALS IN BENGAL DUBING THE YEAR 1896-97.

Quantity—Tona.         Value.         Quantity—Tona.         Value.         Quantity—Tona.         Value.         Quantity—Tona.         Value.         Quantity—Tona.           B         3         4         5         6         7         8         9         10         11         12         13         14         16           P         Down.         Total.         Ea.         Up.         Down.         Total.         Ea.         Up.         Down.         Total.         Total.         Total.         Down.         Total.
4         5         6         7         8         9         10         11         12         13         14         15         16         1           Total.         Re.         Tot.         Down.         Total.         Re.         Total.         Re.         Total.         Down.         Total.
Total. Re. Tons. Re. Up. Down. Total. Re. Tons. Re. Up. Down.
1,340 1,368 174 1,388 20,89,784 1,380 35,00,734 467
60,573 64,643 64
67, 773 64, 64, 773 64, 96, 773 11 28, 946 57, 973 64, 976, 973 64, 976, 973 64, 976, 973 64, 976, 973 64, 976, 973 64, 976, 973 64, 976, 973 64, 976, 973 64, 976, 973 64, 976, 973 64, 976, 976, 977, 978, 978, 978, 978, 978, 978, 978
679 779,910 8,929 86,299 86,299 88,291 76,013 11,000 11,00
1,460 1,440.03 1,440.01 1,440.01 1,440.01 1,010.
1,000 1,000
2. 1, 1, 2, 2, 4, 1, 2, 2, 4, 1, 2, 2, 4, 2, 2, 4, 2, 2, 4, 2, 4, 2, 4, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
2,000 2,000 1,000
1,400 1,45,036 1,400 1,46,000
1,385 1,445,272 1,336, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28
1,388 10,288 10,288 11,487 11,487 11,488 10,88 1

ID—constuded.

DESCRIPTION AND QUANTITIES OF GOODS, &c., CARRIED ON CANALS IN BENGAL DURING THE YEAR 1896-97.

Discription,				ORISSA COAST CANAL.				OFICE	OALCETFA AND	EASTERN CANALS.	ANALB.				NADIA	NADIA RIVERS.		
		To	TOTAL.		PRIVATE.	578.		Tol	TOTAL		Pair	PRITATE.		To	TOTAL.		Par	PRIVATE.
	Sur O	Quantity-Tone.		Value.	Quantity.	Value.	Quant	antity-Tone.	2	Value.	Quantity.	Value.	Ö	Quantity-Tons.	ns.	Value.	Quantity.	Value.
	8	22	83	8	8	ន	82	23	*	88	88	37	2	8	9	15	â	3
BOAT TRAFFIC.	Cp	Down.	Total.	ä	Tons.	Re	Up.	Down.	Total.	Be.	Tons.	Ra.	Up.	Down.	Total.	ig.	Tons.	Ba.
Cotton, me and manufactured	153	•	3 :	5,34,990	3	6,34,890	::	346	3 :	1,09,593	3	1,09,502	4 9	8	2	8,000	8	8,200
River and the control of the control	: E 38	42,049	15.5	22,05, 406	T. 100	\$2,03,006 35,000	477.0	141,140	147,905	1,78,98,673	167,903	1,78,89,673	4,158	8.407 8.407	12,560	19,48,195	12,580	12,44,795
nd skins		200	90 24	7,800		7, W.D	:	107	107	61,017	101	61,017		-	1color	2,300	100'00	2,300
Oliveral and the second	# 188 # 188 # 188 #	1 0 S	888 888 888 888 888 888 888 888 888 88	9, 61, 295 8, 61, 295	25.25.2 2.36.3	\$,61,776 8,451	5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2,018	1,373	1,94,158	1,378	1.93,156	162	: 6	28.00	49, 693	8,068	4,49,893
11 10 000 000	8. T.	120	90 889 90 454 90 454	10,578	2 . i i i i	2,58,263	1,411	17,001	13,719	20.33 409 61,73,975	11,719	51 73 .73	P. 147	3,262	13,143	3,64,177	5,499	3,14,412
Topological Control of the Control o	1,670	17	1,026	3, (m, 048 9, 5%, 8 p.5	100	1,00,085 2,60,145	165	6010	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,8 . 900	6.410 0.00 0.74	1, 38, 860 2, 68, 981	" B. B	9. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	80 87 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	91, 479 52, 338 4, 49, 742	636 377 2,513	25 25 25 A
serial aneong goods	2,655	27.	2 7 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2.3	7 9 A	9 0: 10 m	\$ 0.00°	77,727	82,414	11,17,540	304,470	77,56,930	80,9337 788,7	\$2,027 83,027	3,162 52,794	83,65,433 10,24,033	52,994	82,62, 82,68,439
power.	966		1,011	31.25	1107	8,735	F	196,063	126,130	9,63,537	126,130	9, 53, 537	126		200	070.8	262	2,020
Treatment	8.0.0 0.0.0	358	in Sign	39, 64c	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18.00 18.00	28,263 23	110,659	87,028 110,033	2.87,248	37,998	2,87,948 1,55 95,455	88.8	25.4	16,288	1,32,963	15,236	26,67,743
Total boat traffe, Tona.	20,357	45,157	67,514	48,46,73)	67,516	45,44,730	92,759	928, 20	721,463	5,65,71,221	721,683	6.63,71,291	61,436	107,996	160,450	1,94,75,642	100,450	1,92,75,442
RAPE TRAFFIC.																	TO SEE	
Timber in loce C.ft.	80818	\$1.198	23,400	662'53	33,400	46,130	14,599	8,517	18,115	46,995	18,118	46,866	20	5,325 4 xes	6,890	10,760	6,399	10,760
Dierpers, bred gange	111				: ; ;	1 : 1	: : :	1 1	1 : :	. :	: 8 :	: : :	}	: :	: :			11
Sales	: :	* :	\$ .	7 :	* 0	::	***	1 :		* 1	ž 1	1 1		0 0	9 9	1 1	1 1	::
Barriston	4,590	12,006	16,969	1,678	16,988	1,678	0 00	27,451	27,451	100	87,461	3,424	: 1	816,360	218,350	21,748	218,350	91,746
Total-raft traffic, C. ft.	7,189	47,2 15	80,389	50,199	60,389	80,198	14,399	\$0,969	15,606	48,700	46,688	49.789	089	227,980	828.670	- SSS - SS	228,550	42, 383
GRAND TOTAL [ Tons.	22,347	45,127	67 518 7	48,96,918	67,514	40,94,919	965,759	62% PS4 30,968	721.00S)	5,66,19,930 }	721,683	\$ 5,06,18,930 {	61,440	107.996	1	3 1,90,17,650 {	169,650	1.00.17.030

IE.

### STATEMENT OF AREAS IRRIGATED BY IRRIGATION WORKS IN BENGAL DURING THE YEAR 1896-97.

			ARE	6 IRRIG.	ATED IN	ACRE	3.		AVERACE FI	HE DIS	LARGE,	OUBIC	AREAS	RRIGA OT PE	TED PER	OUBI
NAMES OF CANAL.					•			DELE-	AT II	RAD.	Unit	ZED.	DISCHAI		UTIL	EED.
•		Kharif,	Rabi.	Total.	Flow.	Lift	Area irri- gated.	Per- centage of total area.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi
1		3	8	4	6	6	7	0	9	10	11	12	13	16	15	16
ORINGA CANALA.				1			1									
codrapera Canal and its branch hittinda ditto ditto jgh Level Canal, Rauge I	100	<b>72,978</b> <b>4</b> 5,338 <b>2</b> 0,226	4,891 76 319	77,566 45,414 20,545	77,564 45,414 20,545	# # # # # # # # # # # # # # # # # # #	***	*** ***	998 485 319	585 250 184	870 403 187	441 165 26	040	***	000	***
Total Mahanadi Series	101	188,637	4,086	143,523	143,523	441		***	1,767	978	1,460	632				***
igh Level Canal, Range II Ditto ditto III appur Canal	941	2,743 24,246 6,222	341 2,310 5,663	3,084 26,556 11,695	3,084 26,556 11,885	***	***	***	16 149	2 105 180	15 117 28	2 105 134	9+1		***	418
Total Brahmini-Byturni Series		33,211	8,314	41,525	41,525			104	197	257	190	240			0+0	
Total Origen Canals		171,748	13,300	185,048	185,048				1,964	1,235	1,065	672	•	•		6
MIDWAPORE CAPAL.				}												
nder Midnapore weir nder Panchkugs weir idal Reaches, Sanges I and II		56,334 7,763 1,086	***	56,834 7,763 1,086	66,334 7,749 1,086	14	000 400	***	242137	81:42 11:55	217:85 30:58	47°76 4°48	232.42 238.05	*** :	258 <b>-89</b> 253-85	***
Total Midnapore Canal		65,183	,	65,183	65,169	16	144	***					***	*** ,	***	***
den Canal		19,046	2,950	21,294	\$1,894	***			410'73	106 20	209.13	45'25	46 36	11'40	91'08	49:71
Вони Однала.																
estern Main Series		82,366 234,675	28,879 191,511	106,245 626,086	101,244 404,786	5,001 21,390	***	***	1,523 3,701	478 2,149	1,379 3,327	372 1,798	53-97 6.1-38	49°95 69°11	89.73 70.50	64'39
Total Sone Canals	401	316,911	215,390	532,3311	606,030	26,301			6,927	2,627	4,706	2,100	49.00	81 99	67:36	99.44
tean Canale		***	4,080	4,080		4,080		***			No d	ischarge	taken.			

Not filled in, as about 30 per cent of the rice was not irrigated till the middle of October, and the areas of rubi are sogmail that the results obtained are of no value at would only mislead.

\*\*Exclusive of 22,825 acres of hot-weather irrigation consisting of 21,438 acres flow irrigation and 1,387 acres lift irrigation.

#### IIE

## STATEMENT SHOWING THE INCIDENCE OF WORKING EXPENSES AND ASSESSED WATER-BATES ON CANALS IN BENGAL DURING 1896-97.

2.	of the year cubic feet	WATER-	RATBO	Volumes so 1	DURIN	o 1896-97.	mort see	direct and	daring that	Ex	ORKIN	ro is.	Occupie	n's Rates Rates).	BATES	WATER. DIRECT
NAKE OF CAPAL.	Average discharge of at crual head in per second.	Occupier's rates (water-rates).	Owner's.	Total, direct.	Indimet.	Total of direct and indirect.	Gross assessed revenue	Working expenses, di	Acres irrigated dar.	Per cent, on gross revenue.	l'er acre irrigated.	Per cubic font per	Per acre irrigated.	Per cubic foot per second of discharge.	Per acro irrigated.	Per cubic foot per second of discharge.
1	2	3	4	5	6	7	8	9	10	11	12	13	16	15	16	17
AJOR IRRIGATION WORES.		Ra.	Rs.	Rs.	Re.	Ba,	Ra.	Rs.	Acres.	10 to to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to				-		1
rissa Project lidnaporo Canal lijili Tidal Canal and Project	1,277 106:05 2,866	3,63,420 1,05,661 11,25,449	***	3,63,430 1,05,661 11,24,449	000	2,63,420 1,05,001 11,24,440	4,90,908 2,80,671 90,946 12,28,048	4,93,743 2,88,899 4,191 5,07,443	195,049 65,183 535,156	100:98 88:12 44:19 48:65	2.67 3.57	22.00	1°27 1°62	206-26 996-32 892-74	1:87	200°28 906 38 398°84
Total		14,93,830	981	14,93,530	***	14,93,530	20,90,573	13,60,707	6,05,887	65 '37	1189				***	
Ithon Works and Navi-																
aran Project Tissa Const Canal alcutta and Eastern Canale adia Rivers aighatta and Buxi Khals den Canal adhuban Canal	000 000 000 000 000	6,416	000 000 000 000	6,416	040 040 040 040 040	6,416	7,997 86,141 4,39,938 93,474 3,820 69,840	11,034 87,783 2,30,769 1,30,818 084 1,08,457 5,701	4,080	168:54 101:00 52:45 130:95 17:90 181:24 57:97	8·92  5·09	###	1*57	**** **** **** ****	1'97	000 000 000 000 000
Total	994	69,496	204	66,496	001	F6,496	6,90,610	5,70,256	25,374	83-13	991			611	040	2+4

Note 4.—In this table the water-rates shown as assessed during the year are the amounts for which occupiers have rendered themselves liable in return for canal are supplied during the year, and include some demands which were not logally recoverable, and others of which the assessment papers were not completed till after the Note B.—Relands of revenue have been deducted from "Gross assessed revenue from all courses.

IIIB.

STATEMENT OF QUANTITY AND VALUE OF CROPS IRRIGATED IN BENGAL DURING THE YEAR 1896-97.

Estimat- Area irrigated.  7 8 8 129 84,500 61,821 67,838 22,730 18,38,000† 803,049 28,771		ed. Est	Estimated A value. 111  11	Area E 12 12 216 64, 174 68,399 23,339 570,315 2,8357 28,925 96,925 96,925	Estimated value.  13  17,042 17,08,100 30,76,481 10,06,593 2,88,77,237
	Rs. 3,992 16,16,120 30,53,641 9,86,496 1,77,68,736	27.11.60		116 99 99 99 115 125 65 65	13 Rs. 17,042 17,08,100 30,76,481 10,06,593 ,88,77,237 1,250 4,67,850 15,58,500
	Rs. 3,992 16,16,120 30,53,641 9,86,496 1,77,68,736	7:18		116 999 999 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Rs. 17,04: 17,08:100 30,756:08 10,06,599 10,06,599 12,58;71,235 4,67;75 4,67;75 12,58;50 15,58;50
ω	3,992 16,16,120 30,53,641 9,86,496 1,77,68,736	27 561 609		216 174 399 339 315 125 357 925	17,04: 17,08:100 30,76:08 10,06,59: 10,06,59: 12,58;77,23: 12,58;70 11,58;70 11,58;70 11,58;70 11,58;70
	30,53,641 9,63,641 1,77,68,736	308		3399 3399 315 315 357 357 925	30,76,18 30,76,18 10,06,59 10,06,59 125 4,67,83 15,58,50
808 : . 61 24 :	9,86,406	808		315 315 357 357 925	10,06,59 ,88,77,23 ,88,77,23 1,25 4,67,85 15,58,50 6,55
	1,250			125 357 925 969	123 1589, 75 16.589, 50 16.589, 5
. 03	1,250	_		26,357 28,925 962	4,67,83 16,58,50 6,53
α × :	1,250	***	27,400	125 26,357 28,925 969	1.25 4,67,85 15,58,50 6,55
N N :	10 10 10 10		8 314	26,357 28,925 969	4,67,85 15,58,50 6,55
	4.40,450	_	- N	26.925	16,00,51 6,55 8,84
•	981,26,61	154	H C L	7.07	59.4
	46 900	25.50	6,550 675	4016	A 40 A
	90,000	177	0,0,0	0164	004.00
- 6	09			117	3510
1,78	43,400	883	44,150	2,967	97,990
******				1	20
2,122	69,920	255	10,455	2,377	70.375
•	6,870		•		6,870
	240		0 0 0	.9	240
•	40401	_		420	
	70,01	07	000	107	11,12
_	•	1G	9.825	155	2.325
	10,70,928	244	4,8±0	86,359	10,76,748
18,72,500 555,156	2,66,62,086	4,080	,51,726	8 29,771	8,80,42,648
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • •	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		066	4×,510
	2,66,62,086	4,050	1 K1 79R	245 10 000	
1		421 421 36,084 10,7 555,156 2,66,6	421 10,767 18 421 10,76,7 86,084 10,70,938 244 555,156 2,65,62,086 4,080	240 421 10,767 18 45084 10,70,938 244 555,156 2,66,62,086 4,080 1,	2     240     18     360     439       421     10,767     18     360     439       10,70,938     244     4,850     86,359       555,156     2,66,62,086     4,080     1,51,726     829,771

COMPABATIVE STATEMENT OF IRRIGATION AND RAINFALL FOR THE YEARS 1896-97 AND 1895-96.

OF THE CIVIL DISTRICT.	P	WORES	WORES SUPPLYING IRRIGATION.	Culturable	Area at		AR	AREA IRRIGATED IN	IN ACRES			BAINTAI	RAINFALL, INCHES.
				manded by			1896-96.			1896.97.			
Culturable Cultivated No.	0.		Name.	works in column 6, in acres.	the works the works specified in column 6.	Kbarif.	Rabi,inclu- sive of hot- weather	Total.	Kbarif.	Rabi,inclusive of hot-	Total.	1895.96.	1896-97.
9	100	-	80	2	90	G	10	11	189	13	14	13	16
			ORISSA CANALS.										
I		H	Taldanga Canal and	172,335	73,810	24,991	681	26,672	46,338	76	45,414	92.99	84.28
1,367,990 11	I	1	Kendrapara Canal and	212,660	107,360	60,638	8,298	63,936	72,978	4,691	77,564	61.98	62-58
		14	branches.  High Level Canal, Range I Do. II.	48,816 10,000 70,000	33,440 10,00 38,500	18,414 743 1,651	445 149 3,335	13,859 892 4,996	20,226 2,743 6,222	\$19 \$41 5,663	20,545 3,084 11,885	68.12	62.03
1,357,990				613,860	263,110	101,447	7,998	109,355	147,502	10,990	158,492	:	:
H IA 000'999		Annual Property	High Level Canal, Range III.	67,600	40,640	\$91'CI		10,105	24,246	2,310	26,656	62.51	71.79
1,923,990				671,300	303,750	111,551	7,909	119,460	171,748	13,300	156,048	:	:
			SONE CANALS.										
2,356,000 I P		-	Patna Canal	170,867	166,405	36,733	6,808	42,541	40,815	12,861	53,676	\$6.38	38-39
1,038,000	ш		Ditto	146,450	142,636	36,128	8,967	45,086	41,651	13.211	54,762	36.31	33.61
2,187,500   III		45 000	Arrah Canal	483,089	329,527 377,533	120,4 <b>65</b> 68,159	63,009	183,474	141,669	92,459	234,028	: :	::
2,187,600			,	1,036,995	707,360	188,624	118,972	307,596	234,676	212,143	446,718	37.17	28.88
6,581,500	-			1,364,302	1,016,400	261,485	133,737	395,222	316,941	238,315	991'999		:
1,826,501	<b>A</b>	000	Saran Canals	000'09	30,000				:	4,080	4,080	43.42	28-94
6.908,40				1,404,302	1,046,400	261,485	183,737	396,223	816,941	242,295	669,236	:	:

VE concluded.

COMPARATIVE STATEMENT OF IRRIGATION AND BAINFALL FOR THE YEARS 1896-97 AND 1895-96-concluded.

		Drawn Drawn	-	Work	WORKS SUPPLYING IRRIGATION.		Area at		Ав	AREA IRRIGATED IN	ED IN ACEDS.			-	
	- 5					Culturable area com- manded by	present esti- mated as		1896-96.			1896-97.			
CIVIL DISTRICT.	Total area in acres.	Culturable area in sores.	Cultivated area in aores.	No.	Name.	the irrigation works in column 6, in acres.	irrigable by the works specified in column 6.	Kharif.	Rabi,inclu- sive of hot- weather.	Total.	Kharif.	Rabi,inclu- sive of hot- weather.	Total	1896.96	1896-97.
	•	•	•		•	1-		0	10	11	2	81	10	19	16
SOUTH-WESTERN CIRCLE.				5	W. State of the st	00088	000.29	56 887	0	56,887	486,93		\$6.8 <b>9</b>	48.38	80.17 61.61
Midnapore	8,292,800	8,111,600	1,860,100	TH		86,200	10,000	7.284		ace's	00000		A4.007		
Total Midnapore dis-	8,292,800	2,111,600	1,869,100			123,200	76,000	64,121		121.	/en/so	:	200		
triot.	1				Wilder Persons	7.200	2,060	1,180		1,180	1,086	•	1,086	:	•
Hooghly	1,087,360	632,660	44,700	1	u.					RE OK)	66.183		66,183		
Total Midnapore	4,380,160	2,744,160	3,923,800			180,400	17,000	66,251		100000				44.40	40.08
	1.726.080		1,283,400	M	:	(00'98	\$5,000	19,166	1.719	20.876	14,669	1,286 964	6,343	33	60.73
Houghly			701,300		Diffo	200	1	24.50	1,885	36,221	19,044	2,260	21,294		1
Total Eden Canal	2,813,440	*	1,986,100			Juniona.	annina .	104 00	1	101.472	84,227	8,260	86,477		
Total South-Western	7,198,600	•	4,909,900			230,400	197,000	100'88				1	2000		
Carele.	10 705 140		18,141,890			2,206,002	1,487,160	472,628	148,691	616,164	672,916	20,70	690,703		

No. IF.

STATEMENT SHOWING THE WATER-RATES IN FORCE ON CANALS IN BENGAL DURING 1896-97.

CANALS.	Rates.	Different sorts of leases and crops on which the Water-rates are	W	ATI	ma:	ates n.	PBI	3
		oharged.	F	low.		L	ift.	
1	2	3	4	4			5	
		Long Leases.	Re	Α.	P.	Rs.	Α.	P.
[	1	For water supplied on a long-term lease between the 16th June and 30th November.	,					
	п	For a term of 7 years for each season For water supplied on a provisiona license for which a permit for a term	1	9	0	1	8	0
	m	of years is not subsequently issued Provided that the rate for leases, whether new or renewals, required for shorter terms than seven years in order to	8	0	0	8	0	0
Orissa Canals {	IV	develop the system of block (as per Rule 7 III) shall be charged  Beak lands included in long lease are not exempted from assessment, but no	1	8	0	1	8	0
	v	charge will be made for water supplied to them in the rabi season, that is, up to 25th March Low-lying lands included in leases for a term of years which require irrigation	0	0	0	0	0	0
ί		only in years of drought	0	8	0	0	8	0
		Season leases.						
	I	For water supplied for irrigation of rice between the 16th of June and 30th of November	3	0	0	3	0	0
	II	For water supplied for irrigation of dahea rice	1	8	0	,	9	0
	Ш	For water supplied for irrigation of cotton, tobacco, huldi, ginger, wheat, vegetables, indigo and garden produce	1	8	0	1	Q	0
	IV	For water supplied for irrigation of lin-		^	0		0	•
	V	seed, oil-seed and all pulses For water supplied for irrigation of su-	1	U	U	1	U	U
Schedule I <	VI	purposes per 10,000 cubic feet of water supply, also for filling tanks without suthority or using water in an unau-	5	0	0	5	0	0
	VII		1	0	0	1	U	U
	VIII		3	8	0	3	8	0
		part of the above season, for each watering	1	5	0	1	5	0

#### SOUTH-WESTERN CIRCLE.

#### For the Rice Crop.

For water supplied between June and November-whether by flow or lift-

For five-years leases For one-year lease or for water supplied on a provisional license for which a permit for a term of Provided that the leases, whether new or renewals, years is not subsequently issued required for shorter terms than five years in order to develop the system of blocks, shall be charged Otherwise. in addition to the rate of Re. 1-8 an extra rate of 12 annas per acre shall, in the first year only, be charged on leases for less than five and more than one year.

MIDNAPORB CANAL.

For Winter Crops.

... 2 8 0 per acre or per For supply of water, when available ... season. 5 0 0 per acre or such For unauthorised use of canal water ... less rate as may sanctioned by the Deputy Collector.

1 8 0 per acre for each

8 0 0 per acre.

1 8 0 per acre.

50850n.

For supply of water for manufacturing or other purposes Re. 1 to be charged for each 10,000 cubic feet or part of 10,000 cubic feet supplied.

The same charge will be made if water is taken into a tank without authority or used

in an unauthorized manner.

Tanks may be filled with canal water without charge wherever water can be made available without injury to the cultivation dependent on any canal under certain conditions noted in Rule 31

Xuie oi.		Per	big	ha.	
			. A.	P.	
[	I.—Long leases entered into before the 1st October 1895, per season II.—Long leases entered into after the 1st	0	4	0	
	January 1896, per season  III.—Extra charge for long leases entered into	0	6	0	
EDEN <	during the irrigation season, i.e., between 1st June and 1st October in any year, in addition to the rates mentioned in I and				
CANAL.	II, for the first year only IV.—Season leases, kharif, per season	0	2	0	
OZNAU.	IV.—Season leases, kharif, per season V.—Single waterings outside the area com-		8	0	
	manded in each watering		4	0	
	VI.—Season leases, rabi, sugarcane and potatoes				
	and other crops		0	0	
	Boro rice, per season	0	8	0	
Ĺ	VII.—Unauthorized irrigation —				or such lower
	Kharif season	1	0	0	rates as may be fixed by the
	Rabi season	2	0	0	fixed by the Canal officer.
					and an analogous

<sup>o</sup> No rates shall be imposed on lands irrigated without permits beyond the area shown as commanded on the map referred in Rule 1.

#### SONE CIRCLE.

#### SONE CANALS.

The following schedules are in force with reference to all leases taken during the year 1895-96 and subsequently:-

#### SCHEDULE No. I.

#### Leases for a term of years.

POR WATER SUPPLIED BETWEEN THE 25TH		FLOW OR LIFT	
OF JUNE OF ONE YEAR AND THE 25TH MARCH OF THE NEXT.	Rate per	Rato per bigha.	Rate per tonth of a bigha.
1	3	8	4
For leases for seven years, all crops	Ra. A. P. 2 8 0 2 8 0	Rs. A. P. 1 9 0 1 9 0	Rs. A. P. 0 2 6 0 2 6

# Schedule. No. II. Season Leases (Kharif).

NAME OF CROP.	Date f		FLOW OR LI	PT.
TABLE OF ORDER.	Date of supply.	Rate per acre.	Rate per bigha.	Rate per tenth of a bigha.
1	3	8	6	6
Rice and sugarcane for kharif season only	26th June to 6th October.	Rs. A. P.	Rs. A. P.	Rs. A. P.

#### Schedule No. III. Season Leases (Rabi).

			F	LOT	V.							]	Lie	T.			
Time of Supply.	Locality.	Per acre.		Per		ten a b		of		Por			Per				of
1	2	3		4			6			6			7			8	-
15th October to 25th March. 25th October to 25th March.	Water supplied for all crops, including sugarcane from distributaries open for kharif irrigation.  Water supplied for all crops including sugarcane from dis-			16	U	U	A. 3	0	Re. 1	8	0	0	15 10	0	Rs 0	1	6
	tributaries or parts of distri- butaries from which rabi irri- gation only is allowed.																

## Schedule No. IV. Season Leases (Hot-weather).

				FLOW	7 01	Lu	T.		
	Per	: B.	oto.	Per	bi <sub>(</sub>	gha.	Per t	igl	th of
1		8			8			4	
For water supplied between the 25th March and the 25th June, or at the option of the applicant, between the 25th of February	Rs.	A. 0	P. 0	Rs 2	8	P. 0	Ra.	4	P. 0
and the 25th of May, for all crops.  When water can only be supplied for a part of the season, for each watering.	1	8	0	0	16	0	0	1	6

In the case of charges under Schedules I to IV, any smaller area than one-tenth of a bigha will be charged as one-tenth. The bigha contains 27,225 square feet.

#### SCHEDULE No. V.

For water supplied by volume in the kharif season.

For water supplied between the 1st of September and the 31st of October, four rupees for a calculated discharge of one cubic foot per second for twelve hours. For less than a cubic foot per second or less than twelve hours, a proportionate charge shall be made, but a fraction of less than one-sixteenth shall be charged as one-sixteenth.

# 4862 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897.

#### SCHEDULE No. VI.

For water supplied by volume to fill aharas.

For water supplied between the 1st of November and the 25th of March, one rupes for a calculated discharge of one cubic foot per second for twelve hours. For less than a cubic foot per second or less than twelve hours, a proportionate charge shall be made, but a fraction of less than one-sixteenth shall be charged as one-sixteenth.

#### SARAN CANALS.

Rates for selling water to any person who may desire to have it for irrigating hi Per acre. lands :-

		Rs.	٨.	P.
W-14 -	from 15th June to 30th October from 1st November to 31st March	 1	8	0

For water taken without previous application or agreement a further rate of Re. 1 pe acre may be charged in addition to the rates noted above.

Rates for water supplied under individual assessment during the rabi season of 1896-9 and the hot-weather season of 1897 in addition to the rates noted above—

		154	big	sha.	
			Rs.	A.	P
For other crops	ditto	1st November and 31st March 1st April and 15th July ditto the 1st November and 31st	8	4 8 0 8 12	•

These rates apply equally to irrigation by lift and flow-

## List of Officers in charge of Irrigation Circles and Divisions during the year 1896-97.

Circle or Division.	Name of Officer.	Period of Charge.
, 1	3	•

#### SECRETARIAT.

Secretary, Irrigat		1	***	From 1st April 1896 to 31st March 1897.
Under-Secretary, Department.	Irrigation	Mr. A. S. Thomson	4.6.9	" 1st April 1896 to 24th January 1897.
	ditto	,, O. C. Lees	464	" 26th January 1897 to 31st March 1897.

#### SUPERINTENDING ENGINEERS IN CHARGE OF CIRCLES.

South-Western Sone Circle Ditto Orissa Circle Ditto	Circle	,	r. D. B. Horn W. A. Inglis R. B. Buckley W. Connan W. A. Inglis	000 000 000	1041
---	--------	---	---	-------------------	------

#### EXECUTIVE ENGINEERS IN CHARGE OF DIVISIONS.

#### SOUTH-WESTERN CIRCLE.

From 1st April 1896 to 31st March 1897.  " 29th April 1896 to 18th December 1896.  " 19th December 1896 to 31st March 1897.  " 1st to 28th April 1896.  " 1st April 1896 to 31st March 1897.
19th December 1896 to 31st March 1897. 1st to 28th April 1896.
1897. ,, 1st to 28th April 1896.
1st to 28th April 1896.
7000
_ Diito ditto.
From 1st April 1896 to 20th June 1896, and from 30th November 1896 to
Slst March 1897. Slst June to 29th November 1896.

#### ORISSA CIRCLE.

Acquapada-Jajpur I Ditto Brahmani-Baitarni Ditto	***	#P	J. S. L. Long J. C. Hewitt J. S. L. Long B. E. Carter	***	From	n 1st April 1896 to 9th October 1896. 10th October 1896 to 31st March 1897. 7th April 1896 to 28th February 1897. 1st to 6th April 1896 and 1st March
Mahanadi Division Ditto	000	99	T. H. Clowes M. H. Arnott	100	91	1897 to 31st March 1897. 1st April 1896 to 9th November 1896. 19th November 1896 to 31st March 1897.
Ditto	490	99	J. G. St. C. Sedgley		9.9	10th to 12th November 1896.

#### SONE CIRCLE.

Arrah Division Buxar Division Ditto Bastern Sone Division Gandak Division Dehri Workshops Division Ditto	Mr. C. H. DeMello T. Butlor A. S. Thomson G. L. Searight H. H. Green H. E. Williamson , G. C. Stawell	From 1st April 1896 to 31st March 1897.  1st April 1896 to 27th January 1897.  28th January to 31st March 1897.  Ditto ditto.  1st April 1896 to 15th December 1896.  1st January to 31st March 1897.  16th December to 31st December 1896.
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# 4864 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897.

List of Officers in charge of Irrigation Circles and Divisions during the year 1896-97—concid.

## CANAL REVENUE OFFICERS.

Circle or Division.	Name of Officer.	Period of Charge.
1	3	8
Deputy Collector, Revenue Division, Orissa Canals. Deputy Collector, Revenue Division, Midnapore Canals. Deputy Collector, Revenue Division, Sone Canals. Supervisor, Calcutta Canals	Babu Ram Sadan Bhatta- charji. Maulvi S. M. Nasiruddin	From 1st April 1896 to 81st March 1897  Ditto ditto.  Ditto ditto.

Statement showing the Number of Days spent on Duty and on Tour by Superintending, Executive, and Assistant Engineers and Upper Subordinates of the Irrigation Branch during the year 1896-97.

	NA	MR.		Circle or	Division.		BER OF	
_						On duty.	On tour	REMARKS.
	1				2	8	4	8
	Superintending	Engineer	· .					
Mr.	B. B. Buckley W. A. Inglia	0 0 0	000	955		353 12	178	Assumed charge on 18th April 1896. Transferred to Orissa Circle with affect from 13th April 1896.
21 20	D. B. Horn W. Connan	-00	***	0	le Circle	865 106	99	1000.
90	W. A. Inglie	*4*		Ditto	100	259	118	Transferred to Central Circle with effect from the after- noon of 15th July 1896.  Assumed charge of the Circle on the afternoon of 15th
	Executive E	ngineers.						July 1896.
	T. Butler	10.	600	Buxar	***	802	123	Transferred to Champaran Canale Survey Division on 80th January 1897.
	A. S. Thomson	0 0 0	***	Do,	•••	63	22	Appointed to hold charge of the Division as a temporary
	C. H. DeMello H. H. Green	441	860	Arrah		365	164	duty from 27th January 1897.
	G. C. Staweil	444	* 4 4	Gandak		865	157	
		4 9 4		Dehri Work	shops	16	1	Transferred on Railway Survey works in connection with
33	H. E. Williamson	1		Do.		849	200	Finite Action to orke from let language 1007
99	G. L. Searight	P00	***	Eastern Son		865	139 195	Officiated as Executive Engineer from 1st January 1897.
	T. Butler H. Barlow	980		Champaran Survey Di	Canal	68	52	Joined the Division on 30th January 1897.
	C. A. White	***	+14	Cossye	.00	365	150	
		***	***	Balasore	***	203	103	Was in charge of the Division up to 20th June 1896 when he availed himself of six months' leave on private affairs granted to him in Bengal Government Notification No. 94 of 4th May 1896. Returned from leave on 29th November 1896.
	J. Zorab	971	040	Do.	***	162	82	Officiated as Executive Engineer during the absence of Mr. C. A. White on leave on private affairs.
, ]	M. J. J. P. Norm F. M. L. Thomps	an On	***	Nadia River Northern Dr	ainageand	365 28	164	Proceeded on 22 months' furlough from 28th April 1896.
	Bama Churn Pras	manic Bat	nadur	Embankme Ditto	ent.	284	129	Officiated as Executive Engineer from 29th April 1908 4.
ir. 1	K. H. Stephen P. G. Jacobs	100	1 634	Ditto Circular and	d Forton	103 365	41	18th December 1896.  Joined the Division on 19th December 1896.
Ι.				Canals.	u Eastern	000	186	
	M. H. Arnott	+ + 4		Mahanadi	444	139	66	Joined the Division on 12th November 1896.
í	r. H. Clowes J. J. St. C. Sedgl	***		Do.	***	223	108	On furlough for one year from 10th November 1908
Ì	R. E. Carter	ey	***	Do. Brahmini-By	yturni	37	15	In temporary charge of the Division.  Was on furlough from 7th April 1896 to 28th Fabruary
. 3	J. S. L. Long	***	•••	Ditto	080	808	72	1897. Held charge of the Division in addition to his duties as Executive Engineer, Acquapade-Jajpur Division, from
	innoda Prasad Si			Ditto	•••	20	•••	7th April 1896 to 9th October 1896.  In temporary charge of the Division in addition to his charge of the Kendupatna Subdivision from 9th to 28th
	. S. L. Long	4 6 4		Acquapada-J	ajpur	193	173	February 1897.  Transferred to Brahmini-Byturni Division from 10th October 1896.
J		***		Ditto	***	178	108	Assumed charge of the Division from 10th October 1896.
	Assistant Eng	incere,						Total October 1030.
	leni Madhab Mits			Arrah	***	249	193	Transferred to Champaran Canals Survey Division which
r. O	8. 8mith			Do.		179	-	he joined on 30th January 1897.
bц	Saroda Sunder P	al	***	1)0,		247	98	On sick leave for six months from 23rd April 1896.
. V	V. S. Bremner	* 69		Buxar	***	276		On privilege leave for 89 days from 9th April to 6th July 1896.
bu	. W. Sibold Saroda Sunder P	1.0		Do.		865	243	•
- Li	servus sunder P	81		Do.	400	108		On privilege leave for 15 days from 13th July 1896.
	ogendra Nath M	ukerjee S	ahib	Do.	•••	266	- 5	Transferred to Arrah Division on 4th August 1896. On privilege leave for one month, with effect from 23rd December 1896. Placed on special duty under the Superintendent, Famine Relief Works, from 18th Janu-
ba .	Amar Nath Das			Do.	***	71	18	ary 1897.  Joined the Division on 10th November 1896. Was transferred to the Gandak Division which he joined on 25th
20	Dist		-					January 1897.
4 5	. Blaber mi Madhab Mitre	Sahib	***	Eastern Sone Champaran* Survey.	Canals	865 60	824	On privilege leave for S months from 5th December 1896. Was transferred to Champaran Canals Survey Division

<sup>.</sup> It was temporarily created a Pamine Relief Division under the Superintending Engineer, Sone Circle.

				TS-	REMARKS.
Name.		Circle or Division.	On duty	On tour.	
1		2	8	4	5
Assistant-Engineers-conclud	ded.				
Mr. F. A. A. Cowley	***	Cossye	Ω1	278	On privilege leave for 2 mouths and 34 days: loffeigle
Mr. F. A. A. Cowley	***	Balasore		61	November 1896, and transferred to South Darbhays Famine Relief Division, with effect from 24th February 1897.
" G. F. Hantingford	000	Circular and Eastern Canals.		6	Joined 24th November 1896.
R. C. Edge J. G. St. C. Sedgley	• • •	Ditto	1 985	49 220	Transferred to Famine Relief Works, Bihar, on the for-
		Do	275	180	noon of lotte sautery south
Babu Madhu Sudan Sen Gupta Rai Annoda Prasad Sircar Sahil	b	Brahmini-Byturni	865	240	
Mr. H. G. Gearing		Mahanadi	87	11	Principal works lie at head-quarters. Honorary Assistant
Ditto		Brahmini-Byturni	278	100	Engineer.  Principal works lie at head-quarters.
Sud-Engineers.		1	205	-01	the Aband anartems
Bat Satsowei Chatteriee Sahib		Eastern Sone	985	121 28	Principal works lie at head-quarters.  Ditto ditto
Habn Chunder Bhusan Dutt		Gandak Dehri Workshops	16	1	Ditto ditto. Officiating Executive Engineer
Mr. H. E. Williamson Bahn Tarini Charan Sircar	***	Ditto	865	124	Ditto ditto
Jadu Nath Sen	+4+	Arrah	293	157 164	•
Babu Gopal Chunder Ghose	444	Balasore	43	15	Transferred to Darjecling Division.
Mr. I. J. Atkinson Rai Bama Charan Pramanic E	laba-	Northern Drainage and Embankment.	e 126	94	On 5 days' privilege leave. Honorary Assistant Engineer
dur. Rai Gopal Chandra Daw Sahib	999	Ditto	965	231	Honorary Assistant Engineer.
Rabn Rakhal Das Chatterjee		Nadia Rivers Ditto	805	103	On 60 days' leave.
Rai Rakhal Das Rai Sahib Rai Prasanna Kumar Pal Sahib		Acquapada-Jajpur	855	231	On 10 days' privilege leave.
Mr. S. Street J. W. Fox		Jangipur Toll Office Circular and Eastern	344	309	On 22 days' privilege leave. Honorary Assistant Esgen Honorary Assistant Engineer.
Babu Dakshina Ranjan Muker	jee	Canals. Ditto	. 865	286	
Supervisors.					
	***	Dehri Workskops		12	
C M S Rooke	101	Gandak	365	135	
Bahn Kanti Chunder Bauerjee		Eastern Sone	120	296 58	4
Mohendra Nath Sircar	***	Arrah	139	56	
Babu Rajendra Lal Sircar	* 4 *	Do	865	820	
Mohendra Nath Sirear	**	Buxar	106		
Roma Nuth Sirear	***	D.	365	45	
8uresh Chunder Ganguli		Balasore	322	128	
Mr A. R. Hefferman	***	Do	865		
Baba Suresh Chandra Ganguli		Do. Circular and Bestern			
271000		Canals.			
Akhoy Krishna Bose	p 0 0	Nadia Rivers	89	-	Dati-
Lokenath Mitra	***	D7 43 95 1			The state of the s
**		and Embankment.	,-		
Hari Churn Mockerjee	***				Principal works lie at head-quarters.
Mr. C. A. Marchant Babu Pran Krishna Sen		Brahmini-Byturni Acquapada-Jajpur	0.00		
Oversours.		,			
Mr. B. C. Hill	* * 4		220		
Babu Kali Kumar Roy		Ditto	62	20	All the marks are confined to head-quarters.
Ditto ditto	***	Ex 1 1 997 1 1 1	286 309		
Satya Ranjan Khastigir  Aghore Chunder Chatterj	jen	. Ditto	351	292	
Mherode Chandra Muker	je6	Arrah	111		
Ditto ditto	dar	1.	159	-	
Jagat Narain	dar	Do	865	85	5
Jadu Nath Das	••	. Coneye	865	145	Sectional Officer.
" Sreeram Chunder Dutt	007	Do	365		
Mobit Kumar Chatterjee Burendra Nath Bhattach		The state of the s	365	239	9
		435.4	268	8 158	3 On 6 days' leave.
Borst Chandra Sur	-	. Madia Bivers	343		A 1

### SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897.

4867

NAME.		Circle or Division.		ER OF	
Name.		Official of Dividion.	On duty.	On tour.	Remarks.
. 1		3	8	4	5
Overseers -concluded.					
Babu Hari Madhab Bhaduri		Nadia Rivers	865	141	
Kedar Nath Baneries		Ditto	148	90	
Mohini Mohan Lahiri	100	Northern Drainage	865	178	
or		and Embankment.			
"' Jagat Bandhu Bagchi	***	Ditto	148	82	Joined on 9th November 1896. Transferred to the 1st Calcutta Division.
" Rejendra Nath Mukerjee		Circular and Eastern Consis,	208	111	
" Peary Charan Gupta		Ditto	145	78	
" Kshetra Mohan Palit		Ditto	865	265	Held charge of No. 4 Subdivision in addition to his duties for 12 days.
" Soshi Bhusan Mazumdar		Mahanadi	865	221	
Bankim Krishna Ghose		Do	288	77	Principal works lie at head-quarters.
" Upendra Nath Mukerjee		Do	135	83	
" Krishnadhon Banerjee		Acquapada-Jajpur	865	237	
Bankim Krishna Ghose		Brahmini-Byturni	77	46	Characterist to Bossian Baltief My 1 But
" Saroda Charan Mitra	+11	Ditto	291	129	Transferred to Famine Relief Works, Bihar. Ditto
" Kali Narayan Sen	944	Acquapada-Jajpur	811	155	Dieto ditto.
" Kalidhone Bhattacharya	401	Dista	230	165	
" Upendra Nath Mukerjee	***	Dicco	230	100	

# 4868 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897.

Statement showing Inspections of Offices by Superintending and Executive Engineers during the year 1896-97.

	DIVISIONAL	OFFICES.	SUBDIV		
NAME OF OFFICER.	Number in circle.	Number inspected during year.	Number in circle.	Number inspected during year.	Ramabre.
1	2	8	4	6	6
		)			
Superintending Engineers.					
Mr. B. B. Buckley, Sone Circle	60	4	27	4	Inclusive of Revenue Divi-
W. A. Inglis, South-Western Circle	60	8	26	20	Champaran Canals Survey
W. Connan. Orissa Circle	40	4*	16	8	Division.
Executive Engineers.					
Mr. T. Butler, Ruyar Division			6		
A D Thomson			6		
G. L. Searight, Eastern Sone Divi-	***				
C. H. DeMello, Arrah Division		000	6		
G. C. Stawell, Dehri Work-	}	***	5		
H. E. Williamson, ( sion.	,	***	5	100	
T. Butler, Champaran Canals Survey Division.					
., C, A. White, Balasore Division	***		5	***	
J. Zorab,  B Barlow, Cossye Division			6 5		
P. G. Jacobs, Circular and Eastern					
Canals Division. T. M. L. Thompson, Northern Drain	-12				
K. H. Stephen, (age	1 (	400	6	***	
Division.	17		6		
Mr. M. J. J. P. Norman, Nadia Kiveri		0.00	0	***	
Division.  M. H. Arnott, T. H. Clowes, G. J. St. C.  Soldelar.  Bion.	}	544	8		
Sedgley.  R. E. Carter, J. S. L. Long, Bai Annoda Prosad  Brahmani-Byture  Division.	i }	***	5		
Sircar, Sabib.  Mr. J. S. L. Long, J. C. Hewitt,  Acquapada-Jajpu Division.	}	000	6		

44,502 (on 11th Dec. 1897). 48,765 (11th to 13th Dec. 1897).

39,295 (on 4th Dec. 1897). 39,679 (4th to 6th

48,987 (on 27th

Nov. 1897

75,787 (on 20th Nov. 1897) 27,015 (20th to 22nd Nov.

92,515 (on 13th Nov. 1897). 31,473 (13th to 15th Nov. 1897.)

37,366 (6th to 8th Nov. 1897).

85,743 (on 30th Oct. 1897). 25,203 (30th Oct. to 1st Nov. 1897).

5,401 (on 12th Dec. 1696). 17,823 (12th to 14th Dec. 1896).

On boats not yet unloaded—
By Port Commissioners' returns

On Railway premises on both sides of the river.

Nov 1897) (on 6th

Dec. 1897).

33,035 (27th to 29th Nov.

1897.)

# AND AROUND CALCUTTA STOCKS OF RICE IN

No. 3405 Stats. - The following is published for general information.

Secy, to the Goet, of Bengai. M. FINDCANE,

				Stock in hand as compiled on-	compiled on-			
NAMES OF STATES.	2nd week of Dec. 1896.	1st week of Nov. 1897.	2nd week of Nov. 1897. Mds.	3rd week of Nov. 1897.	4th week of Nov. 1897.	6th week of Nov. 1897.	1st week of Dec. 1897.	2nd week of Dec. 1897.
Baliaghetta Ultadanga	66,000	94,700 12,800	1,02,500	1,13,500 13,500	1,21,500	80,000 11,300	86,000 10,600	95,000 11,300
Hathola, and Oulpi Ghat	1,45,600	1,06,000	1,12,600	1,19,700	1,23,000	008,76	1,04,700	1,02,100
Jordbagan	200	1,250	1,450	1,600	1,700	1,300	1,450	1,900
Lonygunge, Cheur, Adderpore, and Munshigan; Winor bazars (1)	40,700	45,700	54,600	9 40 000	53,200	51,100	55,600	60,500
Other retail shops (1)	2,50,000	2,50,000	2,50,000	2,50,000 35,500	2,50,000	2,50,000	2,50,000 48,400	2,50,000 2,50,000 49,000
Daldyabati, Inawabganj, Bnadres-	18,078	3,178	3,622	1,747	2,800	1,400	1,745	Returns not received.
Total	8,33,958	7,82,928	8,09,872	8,22,447	8,47,150	7,69,800	7,98,495	8,09,800
								-

This mart is in the Bowrah district, and the figures have been obtained by local enquiry.
 Figures furnished by the Collector of Hooghiy.
 Ditto
 by the Railway authorities.
 Estimated as a constant quantity.

Secretary to the Government of Bengal. M. FINUCANE,

29,453 (11th to 13th Dec. 1897).

15,752 (4th to 6th

6,900 (27th to 29th Nov.

14,100 (20th to 22nd Nov.

6,323 (13th to 15th Nov. 1897.)

7,046 (6th to 8th

7,128 (30th Oct.

to 1st Nov. 1897).

40,456 (12th to 14th Dec. 1896).

...

By Canal returns

Nov. 1897).

1897.)

1897.)

Dec. 1897).

9,32,520

8,93,221

8,57,720

9,64,052

9,52,758

9,22,778

9,01,002

8,97,638

000

Grand Total of Stooks

STATISTICAL DEPARTMENT, The 14th December 1897.

# STATISTICS OF THE SEA-BORNT TRAFFIC OF CALCUTTA IN FOOD-GRAINS.

No. 3406 Statistics.—The following memorandum and statements are published for general information.

STATISTICAL DEPARTMENT, The 14th December 1897. M. FINUDANE,
Secy. to the Goot. of Bengal.

#### Memorandum.

The sea-borne import and export traffic of Calcutta in food-grains during the nine days ending 30th November 1896 and the corresponding period of 1897 is shown in the following statement:—

	d.		22мр то 30ті	November 1	
		189	96.	189	7.
• 1		2	3	4	5
Imports.		Cwts.	Mds.	Owts.	Mds.
Fron Foreign Ports	• • •	7,165 44,922	9,752 61,144	270 25, <b>39</b> 0	367 34,559
Total	• • •	52,087	70,896	25,660	34,926
Exports.					
To Foreign Ports	000	50,292 29,629	. 68,453 40,328	87,832 36,003	1,19,549 49,004
Total	{	79,921	1,08,781	123,835	1,68,553

Imports.—The staples comprising the import traffic are shown in the table below, and the figures for the period are compared with those for the corresponding period of last year:—

		-	22ND 10 30TH	November	
		189	3.	189	97.
1		2	8	4	5
Food-gr	rains.	Cwts.	Mds.	Cwts.	Mda.
Rice Paddy Wheat Gram and pulses Other food-grains, barley, oats, &c.	euch as jowar,	80,214 3,675 916 6,415 10,867	41,124 5,002 1,247 8,732 14,791	14,238 7,187 4,135 100	19,380 9,782 5,628 136
• 1	Cotal	52,087	70,896	25,660	84,926

Imports.—During the period under report, the imports of rice amounted to 14,238 cwts., against 30,214 cwts. in the 9 days ending 30th November 1896. The amount imported from Burma was 1,122 cwts., against 10,912 cwts. in the corresponding period of 1896, and that from Chandbali and Balasore 13,106 cwts., against 19,274 cwts. in the corresponding 9 days of last year. The imports of paddy were 7,187 cwts. against 3,675 cwts., and those of gram and pulses 4,135 cwts., against 6,415 cwts. in the 9 days ending 30th November 1896. The imports of other food-grains, such as jowar, barley, oats, &c., fell from 10.867 cwts. to 100 cwts. only in the period under review. from 10,867 cwts. to 100 cwts. only in the period under review.

Exports.—In the following statement the total quantity of each kind of food-grain exported by sea during the period under report is compared with that for the corresponding

	22nd to 30th November						
	18	96.	189	97.			
1	2	8	4	5			
Food-grains.	Cwts.	Mds.	Owts.	Mds.			
Rice Paddy Wheat Fram and pulses Other food-grains, such as jowar, barley, oats, &c.	61,315 162 16,698 1,746	220 22,728 2,376	103,699 4,520 1,943 12,133 1,540	1,41,146 6,152 2,645 16,514 2,096			
Total	79,921	1,08,781	123,835	1,68,553			

The exports of rice from Calcutta to foreign ports rose from 46,819 owts. to 84,643 owts. in the period under report. There were no exports to Museat, which took 3,548 owts. in the correspondexports to Museat, which took 5,545 cwts. In the corresponding period of last year. The despatches to Ceylon showed an increase of 40,970 cwts., and those to Aden a decline of 4,822 cwts. The exports of gram and pulses and miscellaneous food-grains remained nearly the same as in the corresponding period of 1896.

As regards Indian ports, the exports of rice during the 9 days under review amounted to 19,056 cwts., against 14,496 cwts. in the corresponding region of last year. Rembers took only 1990 cwts.

Indian ports.

13,864 cwts. in the corresponding period of last year; Bombay took only 999 cwts., against 13,864 cwts. in the corresponding period of 1896, but the Madras ports took 16,885 cwts., against only 3 cwts. in the last 9 days of November 1896. The exports of paddy to Cochin, Calicut, and Tellicherry aggregated 4,091 cwts., against nil in the 9 days ending 30th November 1896. The decrease under gram and pulses amounted to 3,739 cwts. the chief fluctuations being a cessation of exports to Bombay, which took 10,245 cwts. in the corresponding period of last year, and an increase of 3,128 cwts. to Burma and 3,043 cwts. to the Madras ports

Detailed statements showing the sources of supply and the places of destination, both as regards Foreign and Indian ports, are given below:-

Statement No. I, showing the Imports of Food-grains into Calcutta from Foreign and Indian Ports from the 22nd to 30th November 1896 and 1897 (both days inclusive).

	Poatte.			Rice.	Paddy.	Wheat.	Gram and	Other food-grains, such as jowar, bar- ley, cats, &c.	Total
	1			3	3	•	5	6	7
			1	0 1	Owte.	Cwts.	Owts.	Cwts.	Owt
	From Indian Ports	(1000		Owts.	Owta.	916	1,642	8,702	6.26
		{ 1896 1897	001	*****	*****	594 5 * 9	******	*****	**1001
Bombay	**					****	513		5
	636 1	1896	***	000000	400.00	00000	574	*****	5
	Madras .	₹ 1897	404				233	*****	2
		§ 1896	000	28		000000	7	*****	7
	Bimlipatam	{ 1897		*****	04000				
Madras	•••	(1896		*****		000 171	1,698	** ***	1,8
- aut as	Coconada	{ 1890	444			*****	2,404	304-14	2,4
							9		
		1896	1.0			15-111	*00 ***	*****	****
	Gopalpur	{ 1897	***	****					10.5
		(1896		10,912	,,,,,	*****	253	001000	105
	Rangoon	{ 1897	***	704	******	*** ***	200		
P							*****	*****	***
Burma	Moulmein	{ 1896   1897		418	300000	*****		40000	1
4	Montmern		***						. 1
		{ 1896	***	000 411	168	******	000	*****	***
Chittagong	900	1897		0 6 0 0 0	4 4 4 0 0 0				6,
		( 1896		4,820	1,447	44444	180	000000	8,
	( Balasore	\ 1897		4,348	4,235	800 000	****		
D-1				14,454	2,065		2,240		18,
Balasore	Chandbali	{ 1896 1897	***	8,768	2,952		787		
	Chundan		000			916	6,416	3,703	41,1
		§ 1896	***	30,214	3,676 7,187	310	3,975		26,1
	Total Indian Port	{ 1897	000	14,228	11201	-			
		es.					******	6,685	6,1
	From Foreign Por		***	****	0:00 +0+		200000	100	1
United Kingd	om	1897		*****	000 000	*****			001
- 0		( 1896					150	)	"
China Tr	-Kong	{ 1897		10	*****	******	10		
China-Hong		-					*****	1+++11	(1)
		1896			000000 sac 000		10	0	
Straits Settle	ments	{ 1897		201400				\$80	
1		(1896	3		*****	******		*****	
Victoria .	.00	\ 1897	7		*****	*****		7,165	7
T AND OTHER							1	1/30	
	Total Foreign Por	rts 1896	6	10	*****		1 100		
	Total Foreign Pol	( 189	7				0.41	5 10,867	}
	O	L of (1894	6	80,214	3,675	91		180	- 61
	GRAND TOTAL FOREIGN AND	n Tw. d				7	4,19	36	
	DIAN PORTS	( 189	r	14,238	1,10/	******			Contract of the last of the la

Statement No. 11, showing the Exports of Food-grains from Calcutta to Foreign and Indian Ports from the 22nd to 30th November 1896 and 1897 (both days inclusive).

No. of	Poste.			Rice.	Paddy.	Wheat.	Gram and pulso.	Other food-grains, such as jowar, bar- ley, oats, &c.	Total.
£	1			8	3	4	6	6	7
7	o Foreign Porte,		-4	Owts.	Cwts.	Owta.	Cwts.	Owts.	Owts.
United Kingdom	. = +	{ 1896 1897	100	<b>4,921 5,16</b> 0	*****	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,137 806	000.000	6,058 5,96 <b>6</b>
	Cape Town	{ 1896 1897	•••	591	000 000	*****	******	000 104	591
	East London	{ 18 <b>96</b> 1897	one	222	00000	*****	****	og 010	222
Sape Colony	Algoa Bay	{ 1896   1897	400	810	000 100	100.00	0 0 0 0 0 0		810
Posts 6 3	Mossel Bay	{ 1896		885	00000	*****	249 048	******	885
Eastern coast of Africa.	Other Ports	{ 1896 189 <b>7</b>	,,,,	147	8001*+		******	******	147
Cauritius	0.00	··· { 1896 1897		732	******	00000	15	000000	747
Vatal	400	··· { 1896 ··· { 1897	000	8,193	000.01	******	293	*****	3,486
South America-D	emerara	(1896	001	11 250	80000	18	425	0 0 0 0 0 0 0	413
sab	9.8+	{ 1896	***	11,053	******	******	•••••	*****	11,053 6,231 3,548
rabia—Muscat	0.00	{ 1896   1897	•••	3,548	860.00	*****	1.707	44	28.173
Ceylon		1896		67,392	429	15	318	***	68,139
hina—Hong-Kon		··· {1896 1897		9	000000	90	331		9
Section onto	***	{ 1896 1897		120	*****	200	696	44	813 210
New South Wales	*44*	{ 1896 1897		*****		******	100,000	000 100	******
liji Islands	e e u	··· { 1896	400			******	60	*****	60
7	lotal Foreign Port	\$ 1896 \$ 1897	101	46,819 81,648	429	105 218	3,324 2,498	44	50,292 87,832

	Ports.			Rise.	Paddy.	Wheat.	Gram and pulse.	Other food-grains, such as jowar, bar-ley, oats, &c.	Total
	1		-	8	8	4	5	6	7
	To Indian Ports.			Owts.	Owts.	Owts.	Owte.	Owts.	Owt
Bombay	000 000	{ 1896 1897	•••	13,864 999	*****	000 <b>de</b>	10,245	440 224	34,619
	Madras	{ 1896 1897	000	3 4,486	****	37	1,000 4,212	82	1,122
	Badagara	{ 1896 1897		620	******	000000	000 000	******	620
	Bimlipatam	{ 1896   1897		*****	*44***	9	28	******	******* 3[
N	Calicut	{ 1896   1897	•••	5,457	705	00000	00.000	000.00	6,163
Madras	Cannanore	{ 1896   1897		1,138	*****	00 000	00000	*****	1,188
	Cochin	{ 1896 1897		4,873	2,909	00.000	388	* ****	163 7,783
	Cocanada	{ 1896 1897	•••	*****	******	125	14	000 000	14 125
	Tellicherry	{ 1896 1897	***	411	477			06000	868
	Vizigapatam	{ 1896 1897	***		****		*****	00000	3
	Rangoon	{ 1896 1897	80+	261 678	****	1,540	1,147 4,844	1,180 1,272	2,588 7,829
	Akyab	{ 1896 1897	***	1		******	40 56	40×000	41 66
Burms	< Kyoukpyoo	{\frac{1896}{1897}}	000	000 000	600 000	** ***	4	00000	
	Moulmeir	{ 1896 1897	***	*****	******	1	187 96	08 00>	187 16
1	Sandoway	{ 1896 1897	***	*****	00000	00000	8	4 + 2 + 4	3
Chiltagong	000 900	{ 1896   1897	000	294	00 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	*****	867 631	00000	66 l 63 l
Balasore	Balanceo	{ 1896 1897	**.	• 4 • • 6	600 ***	*****	140 128	000.000	140 128
	Chandbalı	- { 1896 1897	***	000 too	40000	20 48	48 294°	,00001 bot005	63 282
Nicobar	980 089	{ 1896 1897	***	73		000	8	000005	76
Travancore-	Allepey	{ 1896   1897	***	499	000000	945400	16	000 ***	15 499
	Total Indian Ports	{ 1896 { 1897	***	14,496 19,06 <b>6</b>	4,091	57 1,725	19,974 9,685	1,709 1,496	29,629 56,013
	GRAND TOTAL	or ( 1896	000	61,31 6	****	162	16,698	1,746	7H-931
	FOREIGN AND DIAN PORTS.	In- { 1897	••	108,699	4,520	1,948	12,183	1,640	125,000

#### STATISTICS OF THE SEA-BORNE TRAFFIC OF THE MINOR PORTS IN BENGAL IN FOOD-GRAINS.

No. 3,409 Statistics.—The following memorandum and statements are published for general information.

STATISTICAL DEPT., The 14th December 1897.

M. FINUCANE, Sery to the Goot. of Bengal.

#### Memorandum

The comparative statements below give statistics of the import and export trade of the minor ports of Chittagong, Narayanganj, Balasore (including both Balasore and Chandbali), Outtack, and Puri during the nine days ending 21st November 1897, as compared with the trade of the corresponding period of 1896:—

#### IMPORTS.

	fort.		From Foreign ports.	From Indian ports.	To	tai.
			Cwts.	Owts.	Cwts.	Mds.
471 544	(1896			1,620	1,620	2,205
Chittag	ong   1896		* * * * * *	814	814	1,108
Nerova	nganj { 1896 1897			***	* * * * * * 4	
Maraya	1897	W 46 4			* * *	*****
0.1	e ports { 1896 1897	400		206	206	280
palasor	e porus   1897	***		v82	582	792
Outtack				40.0.		*****
Outrade	1897					
Puri	1896	***	*****			***
A GAL	1897			****		*****
n	Fotal   1896	- 0 0	*****	1,826	1,826	2,485
	1897			1,396	1,396	1,900

#### ESTORTS.

Portu			To Foreign ports.	To Indian ports	Tot	al.
			Cwts.	Cwts	Cwts.	Mds
Chittagong	1896		743	1,311	$\frac{1}{2,054}$	2,79 <b>6</b>
Narayanganj	1896 1897	***	*****	9 & 6 · · · · · · · · · · · · · · · · · ·	0 0 0 0 0	*****
Balasore port	1896	• • • •	2,915	25,571 20,456	25,571 23,371	34,805 31,810
Cuttack	1896		29,642	3,660	29,642 3,660	40,346 4,982
Puri	{ 1896   1897	***	5,567	6 b 0 · ·	5,567	7,578
Total	{ 1896   1897	***	35,203 3,658	25,572 25,427	60,781 29,085	82,730 39,588

The import trade of Chittagong, which amounted to 814 owts, declined by 806 owts, chiefly on account of smaller receipts of gram and pulses and other food-grains from Calcutta and Narayanganj, while the improvement in the export trade was due to the despatches of 743 owts, and 1,311 owts of rice to Colombo and Madras respectively. The export trade of the Balasore ports fell off by 2,200 lowts, chiefly on account of smaller despatches of rice and gram and pulses to Calcutta. False Point despatched 3,660, owts. of rice to Madras, against nil owts. during the corresponding period of the last year. Mauritius, which received 29,642 owts. of rice from False Point during the nine days ending 30th November 1896, drew nothing in the period under review. Puri made no exports to Colombo, against 5,567 owts. of rice exported during the corresponding period of 1896.

Detailed statements showing the sources of supply and the places of destination, both as regards Foreign and Indian ports, are given below:—

Statement showing the quantities of Food-grains imported into Chittagong from each Foreign and Indian Port during the nine days ending 30th November 1897, an compared with the trade of the corresponding period of 1896.

Powe skom which imported	1	ioe.	Pnd	dy.	Whe	át,		n and	food-grandle as barley, o	rains, jowar,	Tor.	Al.
	1896.	1897.	1896.	1897.	1896.	1897.	1896,	1897.	1896,	1897.	1896,	1897.
1	3	8	4		G	7	В	•	10	11	13	18
Nii Porsign Ports.		Owts.	Cwts.	Cwts.	Cwts.	Owts.	Owts.	Owts.	Owta.	Owta.	Cwts.	Own
Burma Akvab		156	+9×+0+ +00+000 +4×+0+	2.4400 284044 00.000	#0+000  000770	8	570 507	528	7 636	123	7 1,106 507	18 1 04
Total	100000	106	******	*****	414144	8	1,077	522	543	133	1,620	8

Statement showing the quantities of Food-grains exported from Chi'tagong to each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

PORTS TO WEIGH EXPORTED.	Ri	re.	Pad	dy.	Wh	ent-	Gran	and se.	Other grains, jowar, oats,	buch no	Ton	AL.
	1806.	1897.	1896.	1697.	1896.	1897.	1886.	1897.	1896.	1897.	1886.	1807,
1	3	8	4	5	6	7	0	9	10	11	23	18
Foreign Ports.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwta.	Cwta.	Cwts.	Cwts.	Cwts.	Cwts.	Cwte
Colombo	*******	743	******	****			******	*****	ane .	100000	000	70
Indian Ports.												
Kadras { Nilla	** **	1,311		0.00111		20177	1	244020	011100		1	1,8
. Total		2,084	889 004	*****	*40.048	401.004	1	64.00	64430	000-11	1	2,0

Statement showing the quantities of Food-grains imported into Balasore from each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

Ponts Fac	M WEICH IMPORTED	)	00.	Pad	idy.	Who	mst.	Gran pul	and les,	Other grains, jowar, oats	barley,	Total	pl.
		1006.	1807.	1896.	1007.	1996.	1897.	1896.	1807.	1896.	1007.	. 1806,	1897.
	1	9	8	4	8	6	7	6	9	10	11	18	18
		Owta,	Owta.	Owte.	Owts.	Cwts.	Cwts.	Certs.	Owts.	Owts.	Owts.	Owte.	Own
M	reign Ports.	*****	44900		00/101	144801	****	****		age so		202 200	94.00
	Indian Peri,					30	47	185	407	*****	198	906	563
Coloutta		1	000000	*****	*****	90	47	106	407		185	206	861

Statement showing the quantities of Food-grains exported from Balasore to each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

Power to which exported.	P.	08,	Ped	idy.	WE	iest.	Gran		Other grains, jowar, oats,	barley,	To	otal
	1896,	1897.	1806.	1897.	1896,	1897.	1896.	1997.	1896.	1897.	1896.	1897.
3	3	8	4	5	6	7	8	9	10	11	19	18
Foreign Ports.	Owte.	Owta.	Owte.	Cwts.	Owte.	Owte.	Cwts.	Cwts.	Owte.	Owte.	Owte.	Owto
Maaritine	000 100	2,915	101 707	******	600111	\$90 obs	******	P005110	*******	*****	******	2,915
Indian Port.												
Calcutta	19,241	18,723	4,748	5,361	*****	1+4000	1,582	1,472	800000	****	25,871	20,450
Total	19,341	16,638	4,748	5,961	******	*****	1,583	1,478	******	60.000	25,571	28,371

Statement showing the quantities of Food-grains exported from False Point in the Outtack district to each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1898.

Posts to which exposited.	P.	ice.	Pad	dy.	Whe	est.		and lee.		food-	To	ial,
	1896,	1897.	1896,	1897.	1896,	1897.	1896.	1897.	1096.	1897.	1896,	1807.
ì	3	3	6	6	8	7	8	9	10	11	18	18
Poreign Port.	Owts.	Owner.	Owta.	Owte.	Cwts.	Cwts.	Cwts.	Owts.	Owts.	Cwts.	Cwts.	Owto
Mauritius	29,642	***	******	*****	*****	*****	161491	******	*11000	000.,,	29,648	.,
Indian Ports.										-		
Madras Cochin	000 000 000	1,700 234 624 1,102	*******	* ***	******	000000 000000	000 (04 000 (04 445 (08	******	************************	*****	011000 011010 011010	1,700 23- 62- 1,100
Total	29,643	3,660	P00 pp.			230 30	111000	*****			29,642	3,00

Statement showing the quantities of Fbod-grains exported from Puri to each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

Pours to weigh exported.	R	ios.	Pa	ddy.	W2	loat.		n and	grains jowar,	or food- , such as , barley, s, &c.	To	TAL
	1896.	1897,	1896.	1897.	1896.	1897.	1996.	1897.	1896.	1897.	1896,	1897
1	1	8	4	5	•	7	8	9	10	22	13	10
Foreign Port,	Owte. 5,667	Cwte.	Owts.	Cwts.	Owte.	Cwts.	Cwts.	Cwts.	Owta.	Owta,	Owta. 5,567	Owte.
Indian Porte.							•					
Total	5,587	111400		******	100011	441004		•••••	000044	******	5,567	800 ops

#### EXPORTS OF FOOD-GRAINS BY THE EAST INDIAN RAILWAY.

No. 3408 Statistics.—The following statement shows the quantity of rice and other food-grains exported by the East Indian Railway from Calcutta and Howrah during the period from 1st January to 4th December 1897, both days inclusive, to have been 1,03,16,143 maunds. The destination of 1,01,04,066 maunds is specified. Of this quantity 32,92,191 maunds were carried to the North-Western Provinces and Oudh, 44,47,813 maunds to stations in Bengal, 15,50,523 maunds to the Central Provinces, and the rest, 8,13,509 maunds to other provinces. In the last week of the period, 4,270 maunds were exported to the North-Western Provinces and Oudh, and 376 maunds to Bihar.

STATISTICAL DEPARTMENT,

M . FINUCANE,

The 14th December 1897.

Secry. to the Gort. of Bengui.

Statement showing the quantities of rice and other food-grains exported from Howeah and Calcutta (Chitpur, Ridderpore Docks, and Port Trust Railway) by the Rau Indian Railway, from 1st January to 4th December 1897.

STATION TO Y		Total from 1st January to 80th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30thOcto ber 1897	Total from 31st October to 27th Novem- bir 1897.	4th December
1		2	3	4	5	6	7	8
BENGAL	d.			à				
Hooghly.								
		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Hooghly Tarakeswar		0.100	***	***	839	* * *		***
Chandernagor	Đ	2,122 109	***	***	•••	***	0.00	***
Dasghora		2	***	24.	•••	***	***	***
Pandua		14		***				***
Bainchi	•••	17		***	***	***	***	***
Bhadreswar	***	864	•••	0.01	***	•••	***	***
Total		2,928			339	400		•••
Burdwan.								
Memari		163						
Rasulpur	• • • •	4	400	***	***	***	***	***
Hurdwan		1,094		889	232	102	481	471
Raniganj		9,653	3,972	1,572	2,143	1,168	2,102	
Sitarampur Ghuskara	0 * 0	103	***	***	***	***	•••	***
Kanu Junction	1	349	***	* * * *	***	5	***	6 0 0
Mankar			99	61	***	***	***	• • •
Asansol			***	523		22		***
Total		11,876	4,071	2,545	2,375	1,297	2,583	471
Birbhum.								
M urarai		378						
Bolpur	101	2	101	1,261	159	199		***
ainthia		1	9.00	103	143			***
Rampur Håt Limadpur	***	683 302	***	8 94	***	0 6 2	***	
•	***					***		***
Total	***	1,866	101	1,364	302	199		
Nadia.								
lirpur		7,218	965		***		-	
huadanga	***	8,998	8,670	878			***	***
ushtia		17,618	2,841	***	347			400
lamdanga hairamara	***	5,275 6,407	2,202	***	***	***		* 0 *
amukdia		9,849	10,244	924	1,973	• • •	***	0.00
agula	***	8,819	849	***		***		•••
umarkhali		8,236	878	P o a	382	***		• • •
hoksa	• • • •	1,828	***	***	***	•••	•••	***
Total	5	8,743	21,650	1,802	2,702	0.51		***
Jessore.	00 Oh							
essore		1,014	740				1,193	
			12,788	***	•••	***		***
Total		3,492	18,528	491			1,198	•••
Murshidabad.						-		
uimganj		8,277	8,018	1,929	761			
		1,930	8,770	1,508	383	122	***	***
hulian			7.17	2,638		•••		***
	104	400	378	877				***
Total		2 207	7 010	0.447	1.144	190		
TOTAL	***	3,207	7,913	6,447	1,144	122	***	+60

STATION TO WHICH CONSIGNED.	Total from lat January to 80th June 1897.	Total from 1st to 31st July 1897.	to 28th	August to 25th	Total from 26th f Septem- ber to 80th Oct. 1897.	Total from 81st October to 27th Novem- ber 1897.	Week ending 4th Decem- ber 1897.
1	2	8	4	5	6	7	8
BENGAL-							
contd.		252	264-	Man	Ma.	Mds.	Mds.
Rajehahi.	Mds.	Mds. 529	Mds.	Mds. 152	Mds. 1,095	an un,	Mus,
Malanchi			2,088	. 928	2,847		***
Raninagar			1,054	***	•••	***	***
Nstor	1		189	0.01	***	***	040
Total	1,418	529	8,826	1,075	8,442		
Dinajpur,							
	878	2,417	848		399		
Dinajpur					-		
Bangpur.	767	829			- 0 0	•••	800
Saidpur Kurigram	100		***	•••		10	***
Lalmonir Hat	. 55		***	000	****	***	•••
Tiomer		100	***	228	525	•••	***
Kaunia	770	• 0 0	***	***	***	***	***
Kaliganj		***		120	***	***	
Mogal Hat		929		848			
Total			754	304			***
Cooch Behar	20,768	376			- 000		***
Jalpaiguri.							
Chilahati				874	207	***	1
Dam-Dim	400	100		203	1	101	0.00
Mandalghat	2.027	628	389	408		301	
Haldibari	95 994	18,448	1,820	6,477	7,297	854	
	4,498	376	749	875		***	***
	2,809	228	100	101		***	
Belakoba .	101	3 7 1 1	1.491	2,719	8,828	***	***
Chalsa Road Gha		1,511	1,481	-			
Total .	36,064	16,586	4,489	10,65	11,971	856	
Derjoeling.			-	100	0	0.100	
CONSIDER	522	2,038					2
	5,895	7,067 2,681	349				
Ghoom	0 031	4,684					
30	4,493	7,037			6 8,667	1,644	
FD 1	383	000		***	228	101	
Gyabari	000	880			478		
200 3 31	•••		886	_			-
Total	16,835	28,887	6,718	9,95	1 18,69	12,63	6
Bogra.							
Akelpur		2,855					
Jaipur Hat	•••	4,482 2,072					8
	•••	2,072	2			400	***
Hili Sultanpur	***		4,09				9
Total		9,586	7,49	0 4,24	17,78	1 8,69	2
Pabna.							
Sirajganj	6,298		76	0 1,14	16 84	5	
Dacos.							
		1,59	1				400
Munshiganj Dacca	386						
Narayanganj		•••		13	31		
			_		0.3		
Total	39	0 1,69	1	1 2	81		

...

29,858

82,495

...

Total

...

69,536

105

88

...

151

...

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STATION TO WHI CONSIGNED.	СН	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	to 28th	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th Oct. 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th December 1897.
1		2	3	4	8	0	7	8
BIHAR—cont	d.		34.3	24.4-	383.		W.1-	26.3
Purnea, Kiesenganj		Mds. 379	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Katihar Junctic	on	4,509	371				***	***
Manihari	• • •	61	6	-04		141	***	
Sonali Kasba		346 870	751 740	370	***	***	100	***
Other places			2,751	100	•••		•••	400
Total		5,665	4,619	370		141	***	
m1 7								
Bhagalpur. Nathnagar		5,339	1,532	1,134				
Colgong		25,466	1.511	1,507	1	***	***	***
Pirpainti		18,947	6,048	762	90.0	•••		
3hoga Bhagalpur	***	2,248 66,546	19,769	10,343	1,141	1,591	***	***
Sultanganj	•••	8,770	10,700	380	1,131	1,001		***
Raghupur		870	***	***	***	***		140
Pertabganj Bhaptiahi	***	374	2,262	000	***	* 4 1	• • •	000
•	600							***
Total	0.00	1,18,060	31,122	14,126	1,141	1,591		
Monghyr.								
Bariarpur	• • •	882 9.517	2008	4.075		900	***	***
Khagaria Jamalpur	•••	9,517	3,386 1,120	4,975 3,040		386 880	***	***
Lakhisarai	404	24,529	2,473	6,626	1,626	1,522	879	***
Monghyr	000	6,448	2,639	4,149	1,124	380		•••
Garhara Tegra		86,145 9,825	9,843	7,618 3,051	492	760	879	***
Jamui		-4,203		1,184				***
Begamsarai	• • •	371	0.800		***	104		
Burhi Simultola		3,031 2,657	8,768 162	3,384	975	004	101	***
Nawadi		371	***	***			101	800
Kajra		752	2,256	1,503	•••	100		
Total	***	99,752	32,587	35,828	4,217	8,428	859	
Patna.								
M asaurhi	***	875			•••			
Khushrupur	***	23,700	12,553	6,822	2,881	***	•	•••
Barh Patna		18,905	9,109	48,290	83,998	4,166	756	
Bankipore		8,372	4,920	2,647	4,975	53,046 4,570	22,458 759	
Digha Ghat	* * *	49,931	18,839	10,657	9,596	14,078	2,656	
Badispur Bihta	• • • •	752 3,602	4,211	10,244	4,566	***		
Mokameh		23,469	14,484	11,363	4,664	2,332	379 1,962	
Dinapur Puktisanua		7,823	1,128	380		0,020		***
Buktiarpur Fatua		5,698 3,817	12,176	15,988 3,037	8,894 8,473	1,172	885	
Potal	•••	3,38,068	1,61,920	1,15,837	75,072	1,902		
Gays.	***		-,02,020			84,814	29,781	
Baya	- 0 0	66,331	17,080	28,726	21,426	25,922	6,875	
Jahanabad		2,621	5,728	8,705	6,153			***
Bela Mukdumpur	év.	373 371		880		374		***
	•••			·		\$ A		
J'otal	***	69,696	22,808	37,811	27,579	28,611	6,975	•••
Shahabad.								
Bodadi		8,091	763	***		1,541		***
Reghunathpur Arrah	***	11,840	1,508	4,938	1,896	8,053		876
Buxar	***	23,071 27,935	15,691 18,157	16,933 24,676	5,052 28,804	11,989	1 2,288	0,0
Dumraon	•••	7,910	1,510	8,022	2,268	8,457	040	***
	***			764	1,525	375	860	0.00
Bihia								

STATION TO WE	IICH	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	to 28th August	Total from 29th August to 25th Septem- ber 1897	Total from 26th Septem- ber to 30th Oct. 1897.	October to 27th	Week ending 4th De- cember 1897.
1		2	8	4	5	6	7	8
BIHAR-cond	ıld.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	M da.
<i>Darbhanga</i> . B <b>a</b> kri		E 010	075	0.700				
Tamaria		5,642 4,144	375 370	8,799 878	377		***	***
Samastipur	001	80,779	12,822	12,511	861	3,387	1,148	***
Dalsingh Sarai Darbhanga		39,098 2,25,091	14,717	14,115	1,515	2,287	759	***
Kamtaul		1,857	62,524 3,485	31,141 1,540	2,671	1,154	377	
Waini		4,548	1,141	381		100		***
Jhanjharpur	10.	1,508	3,389	1,521	764			
Total		3,62,662	98,778	65,386	6,191	6,828	2,284	4 2 1
Muzafferpur.								
anakpur Road		759	877 757	1.513				* 4 4
Sarai Bairagnia		1,874 2,495	757	1,511	* 6 5			***
Kanti		1,512	•••	• • •		***	***	100
Matipur Dholi	***	1,398	* * *	874	***		***	
non Muzaffarpur	101	1,893 2,11,741	42,034	29,249	4,169		1,512	0.00
Bhagwanpur	***	6,996	2,263	8,036	376	5,382	1,012	
litamarhi		57,756	21,033	4,229	370	***	* * *	
lajipur Jaraul		22,362 1,499	7,659 1,890	12,585	4,187	8 052	766	* * *
					***			.01
Total	***	3,10,285	76,018	52,873	9,102	8,884	2,278	***
Champaran.		34.057		0.77	1			
daesi legowli	•••	11,951 9,694	1,127	377 380	380	0.00	4 0 4	444
lindara		22,195	Liter	•••		***	***	6.4.0
Bettiah		1,78,145	22,636	16,418		***	***	
Bara Motih <b>ar</b> i	401	42,715 86,241	6,125 $12,445$	2,273 3,003		100		0.04
Pipra	00.	7,051	1,107	377	***		***	- 0 0
		250,000		0.000				
Total	101	3,58,292	43,440	22,828	880	***		***
Saran.								
Dighwara	***	1,887	6,097	7,298	5,348	3,415		
Ekma Chapra	***	12,775 1,28,760	9,428 26,967	8,688 25,154	1,895	8,448	764 6,808	* # *
Joldenganj		873				8,718	0,000	***
Daronda		34,771	9,041	4,887	764		* * *	
Savan Revelganj	***	1,67,819 1,11,822	46,099 88,297	24,553 26,789	19,815 10,272	3,421	1,581 4,935	8++
Mairwa	1	747	***			3,772	2,000	
Sonpur	***	***	* 0 0	4 b ÷	0.01	380	383	601
Total	***	4,58,954	1,30,929	97,319	52,550	23,154	14,421	
TOTAL OF BIHA	B	22,69,317	6,69,688	5,25,206	2,10,428	2,00,539	63,690	876
	er i	24,90,580	7,89,862	5,70,082	2,55,097	2,56,994	84,381	847
OF BENGAL.	OB							
Cachar.								
Bilchar Bealtik	***	847	1,006	•••		909	•••	***
Total	444	847	1,006			302		***
	***	04/	1,000	,		302		
Nowgong.								
Nowgong			•••	880		86,	•••	***
Total of Assam	0.00	847	1,006	880	***	802		

STATION TO WILL CONSIGNED		Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	to 28th August	August to 25th	Total from 26th Septem- • ber to 30th Oct. 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending ,4th Decem- ber 1897.
1	1	2	8	4	5	6	7	8
NORTH-WES ERN PROVINC AND OUDH	CES	Mds.	Mds.	Mds.	Mds.	M ds.	M ds.	Mds.
Ghazipur Diete Dildarnagar Guhmer Tari Ghat Ghazipur		25,027 365 20,528	7,593 8,422 757	1,907 1,530 8,047	8,035 1,141 7,976 754		385 8,456	000
Total	000	45,915	11,772	6,484	12,906	23,259	8,841	***
Benares Listr	ict.							
Dhina Shiupur Zamania Sakaldiha Mogulsarai Benares Canton	•••	977 2,270 88,357 4,160 8,445 1,52,254	1.897 8,445 27,260	2,657 378 25,360	2,657  12,648		11,083	000
Total	***	2,00,828	82,602	28,395	15,680	47,994	11,083	***
Gorakhpur Dist Bhagalpur Gogi Chauri Chaura Tahsil Deoria Gorakhpur Sahjanwa	riot.	8,375 3,753 10,612 7,987 5,340	745 2,286 4,567	1,131 8,752			000	
Bhatpur		80,110	4,535	3,388				***
Total	***	61,177	12,135	8,301			***	***
To at District	t and							
Basti Distri Khalilabad Basti Uska Bazar	•••	1,126 11,438 4,144	***			000		40.0
					-		_	
Total	000	16,708		•••				***
Gonda Distr	ict.							
Gorda Other places		19,514		761		***		•••
Total		28,558		761			•••	
Baraich Dista Nauvara Baraich	riet.	1,895 4,894		•••	• • • • • • • • • • • • • • • • • • • •		•••	***
Total	-0+	6,780				0 0 0		
Mirzopur Dis Ahraura Road Chunar Mirzapur Gainpura	trict.	22,227 4,929 81,654	1,12: 7,96	7 37 0 17,43	3 70	3,15 7,57	8 39	000
Total	***	1,14,855	14,33	20,93	0 80	3 10,26	1,35	2 890
Allahabad Die	trict							
Karchana	001	7,168					•••	***
Naini Manwari	000	0.011	1			1		***
Jasra	0.01	35,884	2,27	6 3,06	1			
Mija Road Nahwai	***	41.41.50						
Alianabad	••	. 1,94,987	10,70	1 20,49	1 3,78	18,78		1 1,183
Bharwari Surathu	***	9 - 4114		7 77	8		•••	100
Sniurajpur	000	12,438	75		5	6 400	***	
Other Places	0.00	870		-		_		1 100
Total	0.00	4,17,165	24,70	8 84,67	7 4,5	14,48	4,95	1 1,100

STATION TO WI		Total from 1st January to 30th June 1897.	from 1st to 81st July 1897.	Total from 1st to 28th August 1597.	Total from 20th August to 25th Septem- ber 1807.	Total from 26th Septem- ber to 30th Oct. 1897.	October to 27th	Week ending 4th December 1897.
1		2	8	4	5	6	7	8
NORTH-WE ERN PROVIN AND OUDE contd.	CES	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mda.
Fatekpur Diet	riot.							
Bahrampur Khaga Bindki Fatehpur	•••	1,889 4,512 59,519 778	8,793 108	2,279 1,148	764	***	***	***
Total	•••	66,728	4,277	8,422	704	***		***
Caunpore Dist	riot.							
Cawnpore City		3,78,602	6,044	15,888	1,515	6,185	4,160	860
Etawah Dietr	ict.							_
Phaphund Bharthna Etawah Jasawantnagar	•••	10,999 766 46,658 9,451	1,148	<b>87</b> 0	761	881	***	***
Total	***	67,974	1,148	870	761	381		144
Ferukhabad 1 triot.								***
Fatohgarh Farukhabad Kanauj	***	878 758 881	000 000	***	000 490	***	***	•00
Total	***	1,507			•••		•••	•••
Mainguri Diet	riot.				1			
Kaurara Shakohabad		6, <b>14</b> 3 6, <b>4</b> 97	751	***	***	***	• • •	***
Total	•••	12,940	751					100
Agra District	401	<b>24</b> ,396 1,09,626	877 11,841	879 5,266	8,398	772 16,939	877 8,088	***
Barhan Total	***	260 1,84,282	11,718	5,648	8,398	17,711	***	***
Sitapur Distri				0,030			8,410	201
Sitapur		12,488	878		***			***
Muttra Distri	ct.							
Kosi Muttra Brindaban		1,564 11,371 696	758	758	882	1,155	1,524 885	384
Total		18,681	758	758	382	1,155	1,909	884
Alighur Distr	rict.					-		
Harduaganj Sikandra Rao Hattrass Alighur	•••	755 758 82,104 19,579	9,427 2,268	1,784 2,667	1,158 1,515	12,285 1,914	5,282 8,414	****
Total		,03,191	11,695	4,451	2,668	14,199	8,696	

STATION TO WHI	СН	Total from let January to 30th June 1597.	Total from 1st to 31st July 1897.	Total from lat to 28th . August . 1897.	August to 25th	Total from 26th Septem- her to 30th Oct 1897.	Total from 31st October to 27th Novem- her 1897.	Week ending 4th Decem- ber 1897
1		2	8	4	5	6	7	8
NORTH-WESERN PROVINCE AND OUDH-contd.	CES	Mds.	Yi da.	Mds.	Mds.	Mds.	Mds.	M de.
Bulandshahar I trict.	Dia-						<u>.</u>	
Chola		1,504		881		***		0.00
Secundrabad		5,289	***	752 2,264	756 2,661	***	751 1,128	***
Khurja Dibai	***	30,340	***	754	2,001	***		
101081	001			4 1/61	0.417		1.870	-
Total	***	42,052		4,151	3,417		1,879	
Muzassarnagar	Die-							,
Muzaffarnagar		757						
Meerut Distri								
		E 105	374				767	
Ghaziabad Meerut		5,135 42,541	1,150	765	853	876	1,903	* # 4
Muradnagar			***	***	***	***		1,120
Total	***	47,676	1,524	765	883	376	2,670	1,120
Banda Distri	ct.							
Badansa		4,530	8 502	375 4,934	753	1,916	1,136	1
Banda	***	37,553 11,332	784			2,020		-01
Bargarh Manikpur		7,919	1,142	1,178				***
Kurwi	404	43,218	•••	1,129	***	***	384	***
Majhgawan		010						-
Total		1,04,928	5,728	8,007	753	1,916	1,520	
Moradabad Dist	trict.							
Khanth	• • •	1,885			1	***		441
Moradabad	***	11,699		381		***		100
Chundowsi	* 0 1				-			-
Total	•••	85,380	***	881			0.00	
Azimgarh Dist	rict.							
Shahganj	***	27,277	1,509	2,675		1,186	-	
Bareilly Dist	rict.							
Nawabganj	• •	754		***		•••		
Aonla	***	7,627	***		1,905	1,146	***	
Bareilly	0 40 0	47,274	2,311	1,520			-	
Total		55,055	2,311	1,520	1,905	1,146		
Jaunpur Diet	rict.							1
Jaunpur	***	05,066	6,855	5,850	1,581	6,882	1,517	- 000
Skajehanpur . trict.	Dis.		1				-	1
Sheighannus		20,083	850	702		883		
Shajehanpur Tilhar	***	16,026	***			1	000	
Anjni	0.00	11,630	880		•••	960		•11
Rosa Junction	***	1,770				-		
		47,511	760	1,143	***	898	400	

STATION TO W		from 1st January to 30th June 1897.	Total from lat to 31st July 1897.	Total from lat' to 28th August 1807.	August to 25th	from 26th Septem- ber to 30th Oct.	Qetober to 27th	Week ending 4th Decem- ber 1897.
1		2	8	4	5	6	7	8
NORTH-WE ERN PROVID AND OUD	NCES	Mds.	M ls.	Mds.	Mds.	Mds.	Mde.	Mds.
Eta Distric	ot.							
Jaleswar Road Kashganj		886 4,146	400	881	• • •	•••	***	***
Total	***	4,502	***	381			***	•••
Lucknow Dist	rict.							
Lucknow Alamnagar Kakori Malihabad	***	1,02,370 38,257 8,920 754	3,014 758 	4,186 705	7,240 8,017	1,916 755	4,103 756	353
Total		1,44,401	3.8 )2	4,951	10,387	2,671	4,949	353
Pilibhit Diet	riot.	-						
Pilibhit	***	1,516	***		* * *	***	•••	100
Saharonpur Die Rurki	striat	878	**4	***				•••
Sabaranpur		15,088		•••	881	*** /		•••
Total	***	15,406	***	•••	381	***		•••
Fyzabad Dist	riot.							
Sahwal Radhauli Fyzabad Ajodhya Gossinganj	***	783 20,772 72,070 10,993 3,788	3,787	7,621	1,138	2,662	8,444	
Total		1,08,406	4,161	7,621	1,138	2,662	3,441	
	***	,03,100						
Sultanpur Dist	rict.	0.500					1	
Akbarpur	***	9,786						***
Bara Bank District. Pahramghat Duryabad Bara Banki Safdarganj	***	7,166 2,275 14,417 52,935	758 769 758	*** *** ***	***	4 04 0 0 0 0 0 0	381 383	0 0 <b>0</b> + 0 0 0 0 0
Total	***	76,793	2,285	100	•••		704	***
Hardai Distr	ict.					-		
Balamau Hardai Baghauli	***	755 21,328 14,899	574	881	376	***	***	000
Sandila	•••	5,607			•••		***	
Total	***	42,649	874	381	376			000
Bijnor Distri	ict.							
Dhampur Nagina Najibabad Bijnor	200	8,692 9,081 10,568 2,618	1,131 709	**** **** ****	•••		000	***
Total	***	30,959	1,840	***	***	***		14.0
Unao.	•••	•••		881	•••	goi	000	••

STATION TO WHICH JONSIGNED.	Total from 1st January to 80th June 1897.	Total from lat to 3 lat July 1897.	Total from 1st to 28th August 1807.	August to 26th	Total from 26th Septem- ber to 30th Oct, 1897.	Total from 31st October to 27th Novem- her 1897.	Week ending 4th Decom- ter 1897
1	2	8	4	5	6	7	8
NORTH-WEST- ERN PROVINCE AND OUDH—	Mds.	Mids,	Mds.	M ds.	M do.	Mds.	Mda
Jhanei District. Jhansi	6,425	1,532	375	883	1,919	1,140	
Lolitpur District.	4,506	756	881	•••	•••	•••	***
Kheri District.							
Lakshmipur	8,889	•••	***		***		
Hamirpur District		1,898	2,262	1,145	1,518	759	000
Dekra Dun Dietric							
Hardwar	378	•••	***		***	•••	•••
Jalam District.							
Ait	1 4/70	•••	•••	***	***	***	***
Total	2,990						000
Gerhoel District.							
Haldwani	2,264	***		404	•••	9.00	
Other places	72,581	1,898	4,579	865	0.00		•••
TOTAL OF THE NORTH-WEST- ERS PROVINCES AND OUDS.		1,69,550	1,75,243	70,690	1,56,174	62,991	4,270
PANJAB.							
Amritour District							
Amritaur	740		***	382	400	001	***
Delhi District.							
Delhi	2,81,956	11,385	14,105	24,694	14,123	21,039	894
Jullundur District.							
Jullandur City	. 8	***	***	880	***	***	•••
Umballa District.							
Umballa City	17,868	140	***	* 0 0		***	
Gurgaon Distript							
Farakoagar		***	***	9°	•••	***	***
Gurgaon Rewari	04443	1,133	8,778	0.00	4,352	2,391	
Total	66,700	1,188	8,778	2,249	4,852	2,391	
Rawalpindi Distric			1,878	1,125		***	
Other places	00.050	1,901			5,744	8,800	877
TOTAL OF THE PANJAB.	1,18,321	14,600	83,533	20,895	24,219	27,280	761

STATION TO WHI	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	to 28th August	August to 25th	Total from 26th Septem- ber to 30th Oct. 1897.	October to 27th	4th Decem-
1	2	3	4	5	6	7	8
CENTRAL PRO-VINCES.	O. Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Katni Jubbalpur Peparia Kareli Nagpur	20,160 66,879 1,95,098 41,578 37,846 78,970 5,80,702	10,590 6,835 2,361 9,146 21,248	5,691 8,014 22,379 2,649 3,829 83,464 1,19,291	3,788 1,141 1,908	6,143 7,674  781 11,671	4,246  12,262 12,787	765
Total	10,20,742	1,72,428	1,95,317	65,109	66,484	20,295	1,148
RAJPUTANA AND CENTRA INDIA.	L						
Ajmere Sutna	1,126 759 1,06,401 2,838	753 11,420	381 14,810	379 2,640	1	1,523	
Indore Jeypur	5,713 1,506 3,016		4=0	385	4 4 0	760	* * * *
Othernalassa	4,807 18,718	880	380 1,528	1	378	551	378
Total	1,45,639	18,697	17,099	4,542	1,526	2,834	378
Hyderabad BERAR.	1,156			200	***		
Badnera Dhamangaon Malkapur Khamgaon Akola Amraoti	2,934 4.33 2,418 3,730 15,258	1,062 385 1,979	768	2,678	1,971	2,284 3,037	***
Shegaon Total	25,150	7,250	12,919	16,190	6,529	6,076	
Bombay	374		1,148			***	
Unspecified place	s 1,12,220	2,640	3,197	3,167	1,239	1,440	874
GRAND TOTAL		11,75,942	10,08,918	4,45,185	5,13,467	2,14,250	7,778
ABSTRACT.  Total of Bengal  " " Bihar  " " Chota N	1,98,470	6,69,688	5,25,200	; 2,10,428	2,00,539	20,360 63,690 331	471 876
pur. Total of Assam Total of the North Western Pr.	h )	1,066 0 1.69.550	380 1,75,248		302	62,994	4,270
vinces and Oud Total of the Panj Total of Rajputa	h.) ab 4,18,32 na 1,45,68	1 14,509	33,588	30,388	24,219	27,230 2,834	761 378
and Central In Total of Cent Provinces. Total of Hyderab	ral 10,20,74		1,95,317	65,109	66,484	29,295	1,148
Total of Berar Total of Bombay Total of Unspecie	25,15	7,250	12,919 1,148	16,198	6,529	6,076	374
places.  Add exports fr Calcutta from to 80th Janu 1897, the det whereof are available.	1st ary ails						640
GBAND TOTAL	69,50,60	5 11,75,942	10,08,91	4,45,188	5,13,167	2,14,250	7,778

#### EXPORTS OF FOOD-GRAINS BY THE EASTERN BENGAL STATE RAILWAY.

No. 3407 Statistics.—The following statement shows the quantity of rice and other food-grains exported by the Eastern Bengal State Railway from Sealdah and Calcutta during the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 the period from 1st January to 27th November 1897, both days inclusive, to have been 1st January to 27th November 1897, both days inclusive, to have been 1st January to 27th November 1897, both days inclusive, to have been 1st January to 27th November 1897, both days inclusive, to have been 1st January to 27th November 1897, both days inclusive, to have been 1st January to 27th November 1897, both days inclusive, to have been 1st January to 27th November 1897, both days inclusive, to have been 1st January to 27th November 1897, both days inclusive, to have been 1st January to 27th November 1897, both days inclusive, to have been 1s

STATISTICAL DEPARTMENT,

The 14th December 1897.

M. FINUCANE,

Secretary to the Goot. of Bengal.

Statement showing the quantities of rice and other food-grains exported from Seaklah and Calcutta (Port Trust Railway, Chitpur and Kidderpore Docks), by the Eastern Bengal State Railway, from 1st January to 27th November 1897.

STATION TO WHI	IOH	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week endirg 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
1		2	3	4	5	6	7	8	9	10
BENGAL 24-Parguna		Mds	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Barrackpore		1,071	374	***	•••		•••			
Shamnagar	100	5	111	***			• • • •	***	***	***
Kankinara		302				1	***		***	
Naihati		149	182	***	20	***		***	***	***
Kanchrapara		34	24	4	2	***		***	***	***
Duttapukur		84	050	100	0.50	16		100	•••	54
Gobardanga	* * *	1,191	359	190	252	613	* * *	141	***	75
Akra Junction	•••	9	4	6		9	• • •	. 0.0	***	40.0
Muslandpur Muses Håt	* * *	4			***		***	***	***	***
Mugra Hât Guma		60	•••	***	***	•••		4 0 0	100	***
Budge-Budge	•••	8		• • •	• • • •	***	***	***		***
Dogachhia		8	***				• • •		***	***
Habra		***		12		***	***	***	•••	
Baruipur		***	***		5	***	***	• • •	***	***
Total	***	2,934	943	212	279	639	***	141	***	129
Nadia.		0.7		1.40			10			
Chakdaha		97 785	131	142 81	6	249	18	***	***	***
Ranaghat		45					5	***	* * *	***
Aranghata	• • •	17,323	3,058	4	17	***	***	4	***	100
Bagula Kishanganj		3,781	1,711	971	302	***	0 0 0		***	
Banpur	•••	608	148	126		6	• • •	***	* 6 5	00°1
Ramnagar	•••	2,874	729	568	109	9	10	2		
Jairampur		2,325	1,072	560	168		***	8		130
Chuadanga		17,306	5,264	1,117	200	165	30	4	31	
Munshiganj		6,447	1,509	69	9	12	***	***	***	***
Alamdanga		35,668	11,839	2,523	18	50	***	8	11	2
Halsa		2,339	483	11.0	503	193	11	•••		*** 1
Poradaha		2,340	245	15.	10	* * *	***	2	•••	***
lagati	P-00 0	2,853	905	21	13	1,198	190	210	2	2
Kushtia	,	47,273	19,967 18,740	1,582 774	3,368		120 25	312	885	276 54
Kumarkhali		6,567	3,583	637	2,504 234	2,496 643		26	20	
Koksa Mirpur	***.	20,759	2,549	148	15	61	* 6		0 0 0	***
Bhairamara	***	29,622	2,962	14	1	168	• • •	000	***	***
Damukdia	***	7,107	13,189	3,425	908	247	6	***	76	•••
Gangnapur		32	20	61			21	•••	***	***
Madanpur		9	88	***	28		6	30	4	
Sibnibash	***	•••	•••		***	39	•••	***	48	414
Total Jessore.		2,26,600	88,192	12,838	8,402	5 540	257	396	577	334
Chandpara		150	18	15		***		***	***	***
Bangaon	**	1,667	213	268	358	554	21	30	36	54
Gopalnagar		521	69	129	240	235	2	***	44	12
Benapol		296	268	69	26	44	000	4	***	32
Nabharan	***	634	227	129	40	36	9.0	19		94
Jhikargacha T		7,048	1,685	1,004	812	502 254	36 60	19 42	86 67	36 138
Jessore	000	6,649	3,482 59	1,017	418		1	44		
Rupdia	001	16,316	7,275	40	55	76	277	32	5	98
Singia Naral	001	258	1,010	***	1		2011			
Binodpu <del>r</del>	900	1,056	110	•••	***		***	•••	•••	1
Nohatta	•••	328	77	2	***	4		•••	100	***
Other places	•••	2,529	250	•••	4	10	***	4	•••	•••
Total	1	87,510	18,733	2,676	1,461	1,715	897	154	289	370

STATION TO WHICH CONSIGNED.	fro Ja to	Fotal om 1st innuary o 26th June 1897.	Total from 27th June to 31st July 1897.	to 28th August	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.
• 1		2	3	4	5	6	7	8	9	10
BENGAL-conta	7.									
Khulna.		Mds.	Mds.	Mds.	Mds.	Mds.	Mdn.	Mds.	Mds.	Mds.
Nawapara Phultala Daulatpur Khulna Bagir Hat		1,535 346 148 3,526 15	876 119 20 5,343 18	20 51 180 30 419	10 26 75 485	6 118 44 22 125	29	10	6 20	24
Total .		5,578	6,376	700	546	315	29	10	26	24
Gopalpur .		1,503 73 498	2,126 260 1,873	1,294	542	370		• • •	2	85
Attrai Raninagar Alipur		37 108 14,912 1,348	982 304 3,108 3,594	4,484 185 1,862	1,380	2,055	000	• • •	4	540
Sara		493	301	4	3	141		***	***	66
20 0 22		•••	•••	100			•••	***	***	***
A 13		18,972	12,996	7,879	4,328	3,667	10	•••	6	151
Dinajpur.						1		1		i
Kaugaon .		6 192	358 843 24	112		68	400	88		
Raigauj		82	3,778	97		772	2	1	2	000
77 3	• • •	1,007	3,778	2,737			•••	000	4 + 4	***
Total	•••	1,288	8,415	3,266	124	860	9	88	22	22/2
Jalpaiguri. Belakoba		632	150			380		•••		0 8 9
Dam-Dim Chilahati Haldibari Jalpaiguri	***	171 70 24,726 25,961	300 7,041 13,032	3,081	14,029	18,08	140	3 284	***	100
Ramshai Hât Chalsa Road Ghât Malbazar	•••	9,716 1,226 1,981 103	165	208	1,401			• • •	0 d 0	
Deomoni Mandal Ghât	•••	713	1		238			0		100
Total Darjeeling.		65,293	21,218						36	111
Siliguri Kurseong Sonada	***	5.857 4,097 1,056	14		B 415	1,04	5 0 15	0	14	1 4
Ghum Darjeeling Mahanadi Tindaria	•••	4,465 3,184	1,174		4 565	1,68	0 2	20		944
Bangtang	***	•••	•••	•••		_ 13		198		36
Total		18,659	8,40	2 1,83	4 3,77	0 5,72	9 38	100		

STATION TO WHI CONSIGNED.	СН	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th . August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Soptem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.
1		2	8	4	5	6	ĩ	8	9	10
BENGAL-con	td.			252	353	363	7.5		351	Mds.
Rangpur. D <b>ar</b> oani		Mds.	Mds. 237	Mds. 305	Mds. 100	Mds.	Mds.	Mds.	Mds.	Mas.
Rangpur	***	1,337	1,458	634	803	739	85	70	81	111
Kaunia		234		12	277	54	20		***	32
Badarganj		24	0.070	38	20	18 633			***	49
Saidpur	***	1,495 236	2,373 505	1,450 868	658 663	745	14	52 126	41	100
Nilphamari Domar	***	8,097	5,191	1,359	7,691	15,197	1,556	103	***	20
rista		392	***		• • •		•••	111		
Lalmonir Hât		453	***	6	***		***	***	***	***
Magal Hât		200	55	356 127	56 449	62 112	2	8	90	000
Kurigram	***	964 426	34	26	130	69			80	100
latrapur Porabari		680	29	81	520	198	***	4		
Madarganj		4		20	91	2,595	•••	***	***	22
Kamarjani	***	1,388	36	35 20	242	128 42	64	***		20
Chilmari	•••	248 133	1	21	26	90	34	***	75	
Rowmari Shampur	***	100			5		***		***	***
								(1)	200	0.5.4
Total		16,411	9,988	5,358	11,816	20,677	1,755	363	290	254
Bogra.			100	150	200				•••	***
Panchbibi Jaipur Hat	411	16	1,493	583		1,871		***	14	4
Jamerbari		1,859	229	416		823	8	140	****	0.00
Sultaupur		170	953	4,148	2,769	5,375	20	294	30	111
Akkelpur	9 0 0	390 105	1,117	1,665		1,810	16	20	6	1
Hil.		507	1,274	722		430	671			***
Jamalganj Tilakpur			108			***	***	***		***
Nakhila					37	90		20		•••
Total	101	3,047	6,261	8,019	5,716	10,603	715	514	50	. 2
Pabna. Nagarbari	1	1,263	201	300	801	170	•••		000	***
Banagram		85	***	***	0.016	1.004	***		100	***
Belkuchi		3,996	1,154	192 3,771		1,024	10		***	***
Serajganj Debes	000	11,476	2,477	0,111	10,040	301				***
Pabna Sthalchar		144		5		38				514
Bera	000		***	12	18					500
Total	•••	16,824	3,832	4,280	13,886	2,166	56	46		***
Cooch Behar Chaurh Hat	•	1,476				167				
Torsa	***	28,106		360			101	78	10	•••
Other places		917		***						-
Total Dacca.		30,499		360	183	768	101	78	10	1
Dorogram	0.01				17	1				
Elashin		6	9	16	218					9.1
Narayanganj								62	20	31
Dacca Kadirpur		0.0		5			1		1	• • •
Tarpasa	***	815	29		302			• • •		
Kamalaghat	0.00	13	38							***
Bahar	001			***	387		• • •	***		•••
Moynal Postagola	0 +	12 518		***			***		•••	
Maniknagar	***			***	2	ຄ			***	
Arioha	0.01		12		401	31	900		0 0 4	1
Sabhar	9.01	-		000	296	1			***	***
Elachipur Bisbnandi			***	•••	20		***	***	***	***
	-		-	_	-		-	-	-	-
Total	400	3,368	5 291	999	6,392	1,087	320	63	50	3:

STATION TO WHILE CONSIGNED.	Н	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897	Woek ending 20th Novem- ber 1897.	Week ending 27th November 1e97.
1		2	3	4	5	6	7	8	9	10
BENGAL-con	td.	363		343	361	361	3.6.1	3.61	261	
Mymensingh. Gafargaon		Mds. 16	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Mymensingh	• • •	651	14	144	243	354	•••	20		100
Bhairab Bazar		41	***		76	41	***	59	***	***
Bahadurabad		254 336	20 121	22	94 32	204	52	20		***
Hargilachar Jagannathganj	***	1,186	25	63	165	924	2	46	401	
Subarnakhali		2,559	264	102	171	73		20	80	***
Sadhuganj			•••		2	***			***	***
Total		5,043	444	331	783	1,636	54	145	30	-
Faridpur.				001				140	- 00	***
Doomasa			***	***	127	126		•••	***	
Daulatdia		11,346				***	***		901	
Lallgolla		4,469	2,730	1,275	6,776	4,413	60	44	301	98 80
Pangsa Belgachi		34,805 8,279	12,914	984	1,829	589	6	***	***	•••
Rajbari		13,341	1,124	495	327	406		***	***	***
Pachuria	• • •	19,465	8,746	6,355	5,531	868	• • •	200		***
Goalundo		19,895	4,304	2,818	6,353	3,338	600	100	***	65
Faridpur		21 6	***	2	19	26	000		004	***
Madaripur Haserkandi		4			20			***	***	***
Nuria			30	456	856	130				
Kartikpur		61		14	558	43	***	2	000	***
Jobsa	p 4 4	•••	•••		86	3	* * *	•••		***
Total		1,11,692	30,148	12,502	22,911	10,060	673	187	301	243
Backer gunge.		-	5			4				
Pirozpur • Jhalakati		920		1,232	2,147	20				
Barisal		249		40	20	20	20	40	***	
•		1 100		1.080	0.100			40		
Total Tippera.		1,169	5	1,272	2,167	44	20	40		
Azabpur					1	2			***	
Haziganj		20	800		120	20	* * *		4 * *	0.00
Comilla		130			132		***	***	***	47
Chandpur	* *	8	1 8	240	203	97	200	4	•••	
Akhaura Nayanpur	•••			10	9			***		0.00
Brahmanbaria		• • •	***		3		•••		***	
Total		105	9	258	477	125		4	1.01	47
Noakhah.	+ 0 9	165	8	200	211	120	***			
Noakhali		471		•••	1			***	20	***
Feni			***		3		***	***		
Total		471		•	4				20	9 0 0
Chittagong.									168	301
Chittagong Burdwan.		54	284	345	618	226	42	60	100	
Sitarampur			***	412	000		***		4 * *	4 * *
Rasulpur		3	0 # 0		400			•••		
Raniganj	***	428		***		***		•••	100	
Total		431		412		100		000	•••	***
Birbhum.	244					-		-	Augustinative spin-	100
Bolpur	00.	5	•••		***			***	000	100
Sainthia		2	•••	•••	***	•••	***			-
Total		7	4.1.					10 P		***
2.0503	**		***	• • •	***	1				

STATION TO WHICH CONSIGNED.	Total from lat January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th September to 30th October 1897.	6th Novem-	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending .27th Novem- ber 1897.
1	2	3	4	5	6	7	8	9	10
BENGAL-concid.  Murchidabad. Azimgunj	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds.
Jiaganj			***	***		•••		***	***
Total		375	•••	•••	•••	***	***	•••	400
Total of Bengal	5,66,344	2,03,967	70,166	1,06,550	91,417	5,059	2,766	1,839	2,875
CHOTA NAGPUR.  Hasaribagh.  Giridih	390	740	***	***	0 0 0				•••
Manbhum. Parulia Chandil Katrasgarh Pradhan Khanta	10 16	740	927	360	•••	600	• • •	•••	000
Total	963	740	1,667	300		•••			
Singhbhum.	00	•							
Total of Chota Nagpu	1,373	1,480	1,667	360				000	7
BIHAR. Sonthal Parganas. Deoghur Pakur Rajmahal	370	794		000	• • •	• • •		•••	000 200
Total	. 376	794		•••		•••			
Bhagalpur. Coigong Bhagalpur Total	370	4,100	•••	000		000	000	4=0	•••
	. 703	4,100			•••	***	140		***
	10 742	370 1,496 1,876 370	370 376 1,516 875	000	000	000	000	000	•••
Garhara .		751	751	***		***	111		4 0 0
	1,283	4,863	3,358	***	•••	***		•••	
Patna Diga Ghat Bakhtiarpur Mokameh Khusrupur Bankipur Dinapur	1,050 740 377 745	386 771	1,128 2,828 382 2,627 375 751	1,110	370	000 000 000 000 000	000 000 000 000		000
Total .	2,912	-	8,091	1,850	740	-			***

STATION TO WH CONSIGNED.	ICH-	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Potal from 1st to 25th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th November 1897.
1		2	3	4	5	6	7	*8	9	10
BIHAR-cond	ld.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds.	Mds.	Mds.
Barsoi		***		370	***	•••		***	100	***
Sonali	4 4 4	720	1,466	•••	9 9 0	***	***	10	***	***
Kishanganj Kasba	•••		*,200	200	404	• • •	400	0.00	• • •	***
Total	600	721	1,466	570	•••	•••	100	10	***	***
Darbhanga.	•••	895	3,004	1,499		***	***	***	***	100
Kamtaul		370			***	***	• • •	•••	***	•••
Dalsingh Sarai	• • •		3,755	2,632		***		***		***
Total		1,265	6,759	4,131		***		•••	•••	
Buxar			***		1,852	000	•••		4 0 0	100
Arrah	900	370	1,120	385		***	• • •		***	
Raghunathpur Behea	•••			370	***	000		***	• • •	***
Dumraon	6 6 8			***	370	•••	1	•••	000	***
Total		370	1,120	755	2,222	•••	•••	•••	•••	•••
Gaya,		370	***	11		•••			***	***
Musaffarpur									-	
Hajipur		750 370		***	***		000	***	000	***
Sitamarhi Muzaffarpur		2,628	2,281	380	• • •		000		***	000
Bhagwanpur			375		•••	• • •	•••	000		***
Garaul		***	376	375	•••	***	•••	***	101	
Total Champaran		3,738	3,032	755		***	***	***		,
Bettish Saran.	000	370	•••	•••		•••	•••	101	• • • • • • • • • • • • • • • • • • • •	***
Ekma		740	•••				•••	***		
Revelganj		1,870	1,857	370		***	0 0 0	***	000	***
Chapra Savan	00	1,537 2,960	380 1,480	740	•••	•••	***	***		
Daronda	***	370	1,505	***			***	***		
Digwara		***	758	9 * *		***	•••	***		, , , , ,
Total		7,477	5,980	1,110	***	•••		800	•••	
Total of I		19,636	46,189	18,811	4,172	740		10	***	•••
NORTH-WI TERN PROV CES AND OU Ghazipur.	UN- DH.									
Dildarnagar		•••	1,121				***	•••	000	900
Ghazipur Tarighat		5	370	***		***	000	• • •		000
	40.			-	-			-		
Total  Benares.	•••	5	1,491	***	***	***	***	•••		100
Benares Zamania	***	370	•••	•••	•••	1,115	0.00			
Total		370				1,115				100
Gorakhpur.		-	-	-	-	-				40*
Gauri Bazar Chauri Chaura	000	370 370		000	***	•••	***	100		
Gerakhpur	••		0 0 0	740		***			•••	
•					-	-	-		•••	989
Total	004	740		740	00.5		000	***		

STATION TO WHICH CONSIGNED.	II J	Total from 1st fanuary to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 25th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 80th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.
1		2	3	4	5	6	7	8	9	10
NORTH-WES- TERN PROVIN CES AND OUDH—contd.		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.
<i>Mirsapur</i> . Mirsapur		385	***	801	***	000		•••	•••	
Mija Road		870 385 4,000	400		000	***	***	•••	***	•••
		4,755	•••					•••	•••	
Pattshpur. Bindki		395		•••	•••	•••		•	•••	•••
Campur.		7,965	0 4 0			381	•••	• • • •	000	
		2,383	•••		•••	***		•••	•••	•••
Mainpuri. Shakohabad		375	0.0	***	•••	***	•••	00.1		11.
Agra. Firozalad		767	• • •							4
Muttra.		379				•••		004		
Alighur.		3,832 375	1,144	379	•••	***	•••			9 000
		4,207	1,144	379					•••	
Meerut.	• • •	758	•••	384			•••			
Moradabad. Moradabad		385	•••				•••	•••		4 0 📞
Bareilly. Faridpur		4							***	-
Aonla	•••	379 1,143			81		• • •	•••	***	
Total	•4,	1,526	090		81		***			•••
Jaunpur. Jannpur Jalelganj		8	8	•••	***		100	•••		•••
Total	***	14	3					•••		***
Shahjehanpur. Shahjehanpur Tilhar Anjhoo	000	1,132 1,899 385	0.00	•••	0.0		***	***	***	•••
Total	800	3,416		•••	-		•••			

	Total from 1st January to 20th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 25th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Weeks ending 20th Novem- ber 1897	Week ending 20 h Novem- ber 1897.	Weel coldin 27th Novem ber 1897
1	2	3	4	5	6	7	8	9	10
NORTH-WES- TERN PROVIN- CES AND OUDII-concld. Lucknow.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mda
Lucknow Alamnagar	1,901 8,401	374	•••	***		**	***	•••	***
Total	5,302	374		***		***	***	***	•••
Bulandshahar. Khurja	750								
Fyzabad. Fyzabad Gosainganj	905			***	***		***		
Total	1,200	•••		***			***	-	
Hardai. Baghauli	7/49			••	***			***	100
Total	1,121	,		***		1		***	
Other places	2,25		37	0	- 141	***	***		
Total of the North Western Provin	39,449	3,01	1,87	3 8	1 1,49	6		***	
Panjab	1,51	6	37	0 1,11	0 1,11	0	100	***	71
Central Provinces	. 45	6	1	2,98	6	***		1	
Rajputana and Centr India ASSAM.	al 38	4	***		***			***	-
Eylhet. Fenchuzunge Sylhet Badarpur Balaganj Rarimganj Chattak	1,29 6,23 5,05	4 5 7 10 2 36 0	9	2 37 42	5 14	6 1,08	2	40	7
	. 14,46	_			_		2	40	
11	13,84	7 5,92	2 20	31 1,3	18 4,22	34	9 59	3 40	-
ALCOHOLD	13,84	7 5,92	2 2	61 1,34	18 4,22	20 34	9 14	9 40	)-
Hoalpara	1,20	8 12 31		30 68 66 2,38			8 16	0 14	
	. 2,84		6	96 3,0	6 2,48	32 8	38 29	0 148	3

				ALL SHAPE		-	Married White	0.000	1. 1. 1. 1.
STATION TO WHICH	Total from 1st franuary to 26th June 1897.	Total rom 27th June to 31st July 1897.	to 28th August	Total from 29th August to 25th Septem- ber 1897	Total from 26th Septem- ber to 3 th October 1-97.	ending 6th Novem-	Week ending 13th Novem ber 1897	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.
1	2	3	4	5	6	7	8	9 .	10
ASSAM—coreld.	Fig. 1			4 10	25.1			Mds.	Mds.
Kamrup.	Mds. 673	Mds.	Mds.	Mds. 13,257	Mds. 6,713	Mds. 2,913	Mds. 2,966	1,923	1,534
			-		-	-			South As
Darrang. Tejpur Mangaldai	257 18	111 160	152	411	259 56	3	4		60
Bishunath Behalimukh	51	***	***	410	***	244	***		
			1:0		315	3	4		G0
Total	326	271	152	822	010		4		00
Sibsagar. Nigriting Disangmukh Dekhumukh Kokilamukh Other places	1,826 1,676 3,886 557 1,576	437 609 372 701	190 697 103	13 357 565 84	129 223 €30 286 142	40 20 82 60	20 93 97 2	72 25 130 	63 16 197 20 8
Total	9,621	2,119	1,000	1,009	1,410	202	212	227	304
Lakhimpur. Dibrugarh Palasbari	14,366	875 20	1,887	4,020 103	3,966	1,650	1,500	1,820	1,203
Total	14,368	895	1,887	4,123	5,972	1,650	1,500	1,820	1,203
Nowgong.	558			61	507				
Other places	115	26	400		112	24		C	
Total of Assam	56,819	15,021	7,601	24,432	20,G56	6,311	5,121	4,198	4,568
	3,843	115	16	-		-			
Unspecified places		2,69,785						6,637	6,943
GRAND TOTAL	1,03,020	3,00,700	1,00,004	1,00,001	1,10,110	-		arate and	- 1
ABSTRACT.  Total of Bengal Ditto Bihar Ditto Chota Nag-	19,636	2,03,931 46,189 1,480	70,166 18,811 1,667	4,172	740		2,766 10		2,375
Ditto North-Wes- tern Pro- vinces and	39,419	3,012	1,373	81	1,496			•••	
Ondh.  Ditto Panjab  Ditto Central Provinces.	1,516	1	870	1,110 2,986			***	***	***
Ditto Rajputana and Centra India.	381	•••	4.	***	***	•••	***	***	
Assam Unspecified places		15,057 115		24,433			5,121		4,568
GRAND TOTAL	3,89,820	2,69,785	1,00,504	1,39,834	1,15,57	11,370	7,902	6,037	6,943

#### COMPARATIVE STATEMENT OF THE PRICES OF FOOD-GRAINS.

RETAIL prices of common rice and other food-grains in the several districts of Bengal and in the neighbouring districts of the North-Western Provinces during the first and second fortnights of October and November 1897, as compared with the corresponding fortnights of October and November 1896, are published for general information. The latest available prices of common rice in Cachar and Sylhet are also published.

M. FINUCANE, Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT, the 14th December 1897.

Quantity obtainable for a rupce.

D		189	07.			18	96.	
DISTRICTS.	15th October.	31st October.	15th November.	30th November.	15th October.	Sist October.	16th November.	Nove
1	3	9	4	6	6	7	8	T
RHON RICH-	S. сп.	8. сн.	8. сн.	8. сп.	8 cm.	8. сп.	8. cn.	8
Burdwan	9 12 9 6 19 8	9 12 9 12 13 8	10 0 11 0 15 12	10 10 { 11 4 to 13 8 15 0	13 0 11 4 13 0	9 12 9 0 11 0	9 12 9 12	1
Midnapore	{ 9 4 (old.) {11 8 (new aus.) 8 2	9 6 (old) 11 0 (new aus.) 8 2	9 10 (old.) 11 4 (new aus.) 8 3	} 12 8 8 8	11 0 10 6 12 0	9 8 8 3	12 0 10 0 8 8	1
Howrah	8 2	8 0	8 0 8 8	9 0	11 0	9 0	9 2	
Calcutta Nadia Murshidabad Jessore Khulna	7 4 9 1 { 9 0 (old.) { 11 0 (new aux.) 3 9	8 0 10 0 10 0 (old.) 12 0 (new aus.) 13 0	8 0 9 12 10 0 (old.) 12 0 (new aus.) 13 0	8 0 10 0 13 0 12 0 12 0	8 14 11 0 11 0 11 0 11 D 9 24	8 6 8 5 9 8 9 2 9 0	8 6 8 14 10 0 9 8 8 10	10
Rajshahi	{ 7 8 (old.) 9 0 (new aus.)	9 0 (old.) 11 4 (new aus.)	10 2 (old.) 11 4 (new aus.)	12 6(new aman.) 9 0(old.)	3 9 8	7 8	9 6	{ iner
Dinajpur  Jalpaiguri Darjecling Rangpur  Bogra  Pabna Dacca Mymensingh Faridpur  Backergunge Tippera Noakhali Chittagong Patna Gaya  Shahabad  Saraa Champaran Muzaffarpur Darbhanga	{ 8 6 (old)   9 9 (new aus.)   8 0   8 8   6 0   7 2 (old.)   8 10 (new aus.)   8 i0   10   8   10 0   7 0 (old.)   9 12 (new aus.)   6 10   10   8 (aus).   10   9   11   0   8   0   9   8   11   0   12   8   9   0   12   8   9   0   12   0   12   8   9   0   12   8   9   0   12   8   9   0   12   8   9   0   12   8   9   0   12   8   9   0   12   8   9   0   12   8   9   0   12   0   0   12   0   0   0   0   0   0   0   0   0	8 6½ (old.) 10 3 (new aus.) 8 8 9 0 6 4 8 10 (old.) 9 12 (new aus.) 11 4 11 0 7 0 11 0 9 0 (old.) 10 8 (new aus.) 7 4 11 0 8 0 9 0 \$ 10 0 11 4 12 8 9 8 12 0	9 0 (old) 12 0 (new aus.) 9 0 7 0 7 8 (old.) 9 0 (new ans.) 10 8 12 0 11 0  } 9 8 12 0 10 8 11 8 9 8 11 8 10 8 11 8 10 8 11 8 10 8 11 8 10 0 40 10 8 12 12 13 8 10 0 12 0	9 9½ (old.) 12 0 (new.) 10 0 9 0 7 0 {12 0 10 8 12 8 10 0 11 4 9 8 (old sman.) 12 0 (new aman.) 13 8 14 0 15 0 (new.) 12 8 (new.) 14 0 15 0 (new.) 16 0 16 0 16 0 16 0 16 0 16 0 16 0 17 0 18 0 18 0 18 0 18 0 18 0 18 0 18 0 18	8 0 11 0 9 8 10 12 9 0 8 10 0 10 0 11 4 9 0	9 9.36. 9 0 8 0 8 0 9 0 9 12 9 0 8 0 8 8 8 4 7 3 9 8 9 0 8 4 8 0 8 1 1 4 8 4 10 0	9 14-24. 9 0 8 0 9 0 9 13 9 8 9 0 8 0 8 0 8 0 8 0 9 0 10 0 8 0 9 0 9 0 10 0 8 0 9 0 9 0 8 0 9 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	9-10 (new 9-10 ) 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Monghyr	8 115	8 10	9 7	10 121	9 4	8 6	8 8	
Bhagalpur Purnea Maida Sonthal Per-	8 14 11 11 8 8 9 0	8 14 11 11 10 9 9 0	10 8 17 0 11 8 12 4	11 6 17 0 11 0 13 8	11 4 10 0 10 0	9 6 10 0 8 8 9 4	10 0 11 0 10 8	
Gauas. Cuttack	13 18	12 8	12 8	13 2	15 2	11 13	11 13	
Pari Hazaribagh Lohardaga Palamau Manbhum	10 8 9 0 11 13 11 13	14 8 11 13 old ) 14 7 (new.) 10 0 10 0 10 0 10 0 11 0 12 6 11 8	14 8  10 8 (old.) 14 7 (new.) 12 4  10 0 (old.) 16 0 (new.) 12 13 15 8	18 8 11 13 (old.) 15 12 (new.) 12 8 9 0 (old.) 14 0 (new.) 14 19 14 8	16 0 16 0 9 0 5 0 10 0 11 0 9 0 11 8	10 12 11 13 8 13 8 0 to 10 0 8 7 12 0 10 0	13 2 9 0 0 0 to 10 0 8 11 12 0 (new)	

				189	7.			11	896.	
Distric	T8.		15th October.	31st October.	16th November.	30th November.	15th October	31st October	15th November	30th November
1	e in	1	2	3	0.4	5	6	7	8	9
		-	8. сн.	S. CH.	8. ca.	8. сн.	8. сн.	8. сн.	S. CB	S. CH.
Patna Patna	***	•••	10 0	10 0	10 0	12 0	8 12 and 9 0	8 4	9 0	9 12
Gaya	***		8 12	8 8	8 12 9 8	9 4	8 8	8 0	8 4 8 8 and	8 4 8 8 and
Shahabad		***	and 10 0	9 8	9 12 10 0	10 0 10 8	and 8 8 8 8	8 8 8 8	9 0	9 0
Saran		441	9 8		8 8	8 8	8 12	9 0	9 0	9 0
Champaran	***		8 8	8 0	9 0	10 0	9 0	8 0	8 0	8 8
Muzaffarpur		***	9 0		8 0	8 8	8 0	8 0	8 0	8 0
Darbhanga	***	**:	8 0	0	9 153	10 111	9 0	8 4	8 12	8 9
Monghyr	***		9 71	8 145 9 8	10 2	11 6	8 12	8 8	9 0	8 14
Bhagalpur	***	***	9 8	9 9	9 9	10 0	9 0	8 0	10 0	9 (
Purnea	***	***	8 0	ט ט	00	10 0		1		100
DIAN-CORN OR M	AIZE-		1	0		200 5	10.0	10 0	13 0	13
Patna Patna		***	15 8	15 8	19 8	22 0	15 0	12 0	13 0	10
14			14 0	13 8	17 13	19 0	12 8	11 2	11 2	11
Gaya	484	000	(	13 8	16 0	{ 18 0 and	14 0	11 0 and	3 12 0	12
Shahabad	***	***	13 8	14 0	1)	18 8		11 8	12 8	12
Saran	***	2.41	15 0	15 0	16 4	20 0	14 8 16 0	14 4	12 0	12
Champaran		***	18 C	17 0	18 8	21 0	15 8	13 0	12 0	12
Muzaffarpur	* 5 *	***	17 0	15 8	16 0		16 0	11 8	12 0	11 1
Darbhanga	000	***	15 0	15 0	18 0	-	1	13 0	13 4	12 1
Monghyr	144	***	15 12	14 113				12 10	13 0	13
Bhagalpur	***	789	15 2	15 2	20 0	21 8	14 6		13 0	16
	***	***	10 4	***	21 4	20 0	16 0	***	232 2	14
Purnea Sonthal Parge		***	16 0	18 0	19 0	19 0	18 0	13 8	2.0	11
Hazaribagh		***	15 0	13 12	15 0	15 0	12 0	11 0	7.7	10
Lohardaga		***	19 (1	12 0	14 0	15 0	16 0	11 0		
	***		18 9	16 14	16 14		13 8	12 6		11
Palamau Manbhum	***	***	74 0	16 0	17 0	16 0	16 0	14 0	*****	12
Manonom	**!		1		1	1	1	1	1	16
				NORTH	-Western	PROVINCES				
										8
COMMON RICE-			9 0	8 8	9 0					
Jaunpur	***	**	0 14	1						9
Gorakpur	***	**	8 4	200 1 200						
Mirsapur			10 0		10 0	10 9				
Benares	000	**	0.10		10 4					8
Ghazipur Ballia	***		. 8 8			3 11 4	10 0	8	9 0	8
						-	180			
WEBAT-			9 0	9 8		9 12				
Jaunpur	***		0 9		9 (	0 9 7	7	1 -	3 7 1	7
Gorakpur	***		G 5		8	5 8 1				
Mirsapur	F 80.0		0.14			5 10 (	8 8	7 1		
Benares	***		0.4			8 10 4	8 8		8	6
Ghazipur	604		0 10			8 11 (		7	8 8	8
Ballia	F81 2		0 12		-					

<sup>\*</sup> Burma rice 9 seers 8 chitaks.

#### ASSAM.

Prices of common rice for the week ending 25th November 1897 :-

	Week of repo	Preceding week	Corresponding week
	S. ob.	В. сп.	S. on.
CACEAR— Janigabj Basar Hailakandi	11 61	11 61 10 0	7 112
Kazi Bazar Clihatak Bazar Sunamganj Habiganj Kanmganj Maulyi Bazar	13 2 14 0 11 0 12 0 11 10 13 8	13 2 12 0 8 0 12 0 11 6 12 0	10 0 10 0 9 0 9 0